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# Effects of Wing Sweep on Boundary-Layer Transition for a Smooth F-14A Wing at Mach Numbers From 0.700 To 0.825

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## SUMMARY

This report discusses the results of the variable-sweep transition flight experiment (VSTFE). The VSTFE was a natural laminar flow experiment flown on the swing-wing F-14A aircraft. The main objective of the VSTFE was to determine the effects of wing sweep on boundary-layer transition at conditions representative of transport aircraft. The experiment included the flight-testing of two laminar-flow wing gloves. Glove 1 was a cleanup of the existing F-14A wing. Glove 2, not discussed in this report, was designed to provide favorable pressure distributions for natural laminar flow at Mach number ( $M$ ) 0.700.

The transition locations presented for glove 1 were determined primarily by using hot-film sensors. Boundary-layer rake data was provided as a supplement. Transition data were obtained for leading-edge wing sweeps of 15°, 20°, 25°, 30°, and 35°, with Mach numbers ranging from 0.700 to 0.825, and altitudes ranging from 10,000 to 35,000 ft. Results show that a substantial amount of laminar flow was maintained at all the wing sweeps evaluated. The maximum transition Reynolds number of  $13.7 \times 10^6$  was obtained for the condition of 15° of sweep,  $M = 0.800$ , and an altitude of 20,000 ft.

## INTRODUCTION

Retaining a laminar boundary layer over a large portion of an aircraft wing and empennage can result in appreciable drag reduction. Several studies have shown that transports of all sizes could benefit from maintaining a laminar boundary layer because of the flight time spent at steady-state cruise conditions (refs. 1-7).

Laminar flow can be achieved through active or passive means. The active method uses suction through the wing surface to maintain laminar flow to potentially 100 percent of the wing chord at very high Reynolds numbers. The passive method requires proper shaping of the wing to obtain a pressure distribution with a favorable gradient and is limited to relatively small sweep angles and low Reynolds numbers.

Significantly more technology validation needs to be carried out before laminar flow can be incorporated into transport aircraft design. A better understanding of transition and how to predict it is also needed in order to design laminar-flow wings.

Determining boundary-layer transition location at conditions representative of transport aircraft has been largely limited to full-scale flight-testing. This is because the Reynolds numbers, model size needed, and low turbulence levels required restrict the use of wind tunnels. In addition, accurate predictions of the boundary-layer transition location from boundary-layer stability codes are difficult to obtain because these codes are still in the development and verification stage.

One earlier flight-test yielding encouraging results was a joint project of the NASA Ames Research Center's Dryden Flight Research Facility (Ames-Dryden) and NASA Langley Research Center. The experiment was flown on the F-111 transonic aircraft technology (TACT) aircraft. The TACT natural laminar flow (NLF) flight-test experiment (refs. 1-4) provided the first definitive flight results showing the effects of wing sweep on boundary-layer transition. The NLF experiment used a full-chord supercritical NLF airfoil. A section of the right wing panel of the F-111 TACT aircraft was covered with a glove having the NLF airfoil shape. This glove, made of foam and fiberglass, had a span of approximately 6 ft and a chord of 10 ft. The glove was designed to provide a favorable pressure gradient to approximately 70-percent chord.

Although somewhat limited, the F-111 TACT aircraft NLF results indicated that the adverse effect of leading-edge sweep was less than expected relative to earlier assumptions (ref. 1). In addition to providing transition data, the NLF experiment helped develop the construction techniques for making large contour modifications to metal wings from foam and fiberglass (ref. 8). Data from the F-111 TACT NLF flight experiment has also been used to enhance boundary-layer stability prediction methods (ref. 3).

Based on the favorable F-111 TACT aircraft NLF results, another flight experiment, the variable-sweep transition flight experiment (VSTFE) was initiated by NASA Langley and NASA Ames-Dryden. The VSTFE was initiated to help establish a boundary-layer transition database for use in laminar-flow wing design. The test facility for the VSTFE was an F-14A aircraft which had variable wing-sweep capability. The wing panels of the F-14A aircraft were modified with almost full-span, partial-chord gloves that had smooth surfaces suitable for natural laminar flow. The gloves could be constructed to change the wing airfoil shape if desired. These airfoil shapes could produce a wide range of pressure distributions for which transition location could be determined at various wing-sweep angles and flight conditions.

The three primary objectives of the F-14 VSTFE were as follows:

1. To determine the effects of wing sweep on laminar-to-turbulent boundary-layer transition at test conditions representative of transport aircraft with respect to Reynolds number, pressure distribution, noise, and cirrus clouds,
2. to establish a boundary-layer transition database for laminar-flow wing design and for evaluation of analytical techniques used for predicting the transition location, and
3. to determine transition location using several different measurement techniques and flow visualization techniques and compare the transition data obtained from each technique.

Two different gloves were flight-tested in the VSTFE: glove 1, a cleanup or smoothing of the basic F-14A wing, and glove 2, which was designed to provide specific pressure distributions at Mach number ( $M$ ) 0.700 (refs. 9 and 10). The wing glove designs, flight-test techniques, and preliminary data are reported in references 11 through 13.

The F-14 VSTFE provided a large database of transition data for gloves 1 and 2. This paper describes the VSTFE and presents the glove 1 flight-test results, (VSTFE objectives 1 and 2). The transition techniques (objective 3) are discussed in reference 13.

## NOMENCLATURE

|           |  |
|-----------|--|
| AG        | nondimensional chordwise location of the onset of the adverse gradient |
| BL        | butt line location, in.  |
| $c$       | chord length, in.  |
| cl        | clean configuration of glove   |
| $C_p$     | coefficient of pressure, $(p - p_s)/\bar{q}$                           |
| dB        | sound pressure level, decibels   |
| $h_p$     | altitude, ft   |
| $M$       | freestream Mach number   |
| NACA      | National Advisory Committee for Aeronautics                            |
| NLF       | natural laminar flow   |
| $p$       | local static pressure, lb/ft <sup>2</sup>                              |
| $p_s$     | freestream static pressure, lb/ft <sup>2</sup>                         |
| $p_t$     | total pressure, lb/ft <sup>2</sup>                                     |
| $\bar{q}$ | dynamic pressure, lb/ft <sup>2</sup>                                   |

|             |  |
|-------------|--|
| $Re_T$      | transition Reynolds number, $Rn_{pu} \times x_T$                                     |
| $Rn_{pu}$   | Reynolds number per unit foot, $\rho_{\infty} U_{\infty} / \mu_{\infty}$ , 1/ft      |
| TACT        | transonic aircraft technology  |
| T.P.        | test point   |
| $U$         | local velocity, ft/sec   |
| $U/U_{max}$ | average maximum velocity at rake location, ft/sec                                    |
| VSTFE       | variable-sweep transition flight experiment  |
| $x$         | distance from glove leading edge, in.  |
| $x/c$       | ratio of distance from leading edge to local chord length                            |
| $(x/c)_T$   | laminar-to-turbulent boundary-layer transition location                              |
| $x_T$       | distance from glove leading edge to transition location, ft                          |
| $Y$         | boundary-layer rake probe height, in.  |
| $\alpha$    | angle of attack, deg   |
| $\beta$     | angle of sideslip, deg   |
| $\delta$    | boundary-layer height, in.   |
| $\delta^*$  | displacement thickness, $\int_0^{\delta} (1 - \rho U / \rho_{max} U_{max}) dy$ , in. |
| $\Lambda$   | leading-edge wing sweep, deg   |
| $\theta$    | momentum thickness, $\int_0^{\delta} (1 - \rho U / \rho_{max} U_{max}) dy$ , in.     |
| $\rho$      | density, slug/ft <sup>3</sup>  |
| $\mu$       | absolute viscosity, slug/ft-sec  |

### Subscripts

|          |                     |
|----------|---------------------|
| T        | transition location |
| $\infty$ | freestream          |

## DESCRIPTION OF THE TEST AIRCRAFT CONFIGURATION

The following presents a description of the test vehicle used in the VSTFE and the natural laminar flow cleanup glove that was installed on the test vehicle for the glove 1 flight-tests.

### F-14A Aircraft

An F-14A aircraft, equipped with two TF30-P414 engines, was the carrier vehicle for the VSTFE. The F-14A was chosen because it had variable-sweep wings (20 to 68°), favorable wing pressure distribution, suitable Mach and Reynolds number capability, and it was available for the experiment. The F-14A with glove 1 on the left wing is shown in figure 1.

For the flight-testing of glove 1, the upper surface of the left wing panel was cleaned up and smoothed by adding a constant-thickness glove made of foam and fiberglass. With the glove installed, the wing-sweep capability was restricted to a range of 20 to 35°, and the flaps and slats were locked in a retracted position.

## Glove 1

Glove 1 was fabricated by applying a foam and fiberglass skin of essentially constant thickness over the existing skin of the F-14A wing section. The glove was initially 0.65-in. thick: 0.5-in. foam, six layers of fiberglass, and coated with a finish of polyester filler and paint. As illustrated in figure 2, the glove wrapped around the wing leading edge and extended back to the spoiler hinge line on the upper surface (~60-percent chord). The glove covered the majority of the wing span from butt line location (BL) stations 130 to 350, as shown in figure 1.

During the flight envelope verification phase of the experiment, small surface cracks developed in the glove. To repair these cracks, one additional layer of fiberglass was applied over the surface of the glove. The final glove included this additional layer of fiberglass and a finish of polyester body filler and paint, which added approximately 0.125 in. to the glove total thickness. The glove construction details, problems encountered, and solutions to the problems are discussed in reference 16.

The waviness of the glove surface was inspected and documented. Figure 3(a) presents surface waviness measurements for three wing stations on glove 1. These measurements were taken with the wing unloaded (zero load) and with the wing jacked from the lower surface to simulate a 1-g loaded condition, which was the condition for most of the flight tests.

The measurements were obtained with a mechanical deflection dial gauge having support feet 2 in. apart (fig. 3(b)). The dial gauge was attached to a wheel from which the distance along the glove surface could be determined. The outputs from both the dial gauge and the wheel were mechanically plotted when the unit was manually moved across the surface.

Because of the long chord lengths involved, two people were required to make the measurements. This caused an apparent roughness at the gauge handoff locations. The handoff locations are indicated in figure 3(a). In general, the glove is not as smooth in the simulated 1-g loaded condition as in the unloaded condition. However, even for this case, the maximum wave amplitudes were within 0.002 in/in, the criterion specified for glove construction.

## INSTRUMENTATION

The instrumentation layout is shown in figure 4 and consisted of the following:

1. Three rows of flush static pressure orifices,
2. three rows of hot-film sensors,
3. two boundary-layer rakes,
4. three dynamic pressure transducers (microphones), and
5. three rows of surface pitot tubes.

In addition, liquid crystals were used for flow visualization at the middle station. The use of liquid crystals for flow visualization and interpretation of the data is described in references 11 and 13. The glove instrumentation systems were located in three test stations: inboard, between BL stations 160 and 204; middle, between BL stations 204 and 264; and outboard, between BL stations 264 and 324.

The following instrumentation systems were installed on the aircraft (at locations other than the wing glove):

1. A charge patch, installed on the left vertical tail,
2. an uplink guidance system, installed in the cockpit, and



3. a standard National Advisory Committee for Aeronautics (NACA) airdata noseboom.

All signals from the instruments were recorded on board the aircraft and most were downlinked to a ground station for real-time display and recording. The instrumentation systems, except the surface pitot tubes, are described in the following paragraphs. Surface pitot tube data were difficult to interpret and are not presented in this report. The surface pitot tube data are discussed in reference 13.

### **Flush Static Pressure Orifices**

Flush static pressure orifices were created by drilling through the glove foam and fiberglass to 1-in. diameter cavities created by "target cups" which were glued to the wing surface and buried in the glove as described in reference 16. Each orifice had an inside diameter of 0.03 in. The individual target cups were connected to an electronic scanning pressure module with steel tubing. The maximum tube length was approximately 10 ft. Each orifice row consisted of 21 surface pressure orifices oriented streamwise to the airflow for a wing sweep of 20°. Table 1 presents the details of each orifice row.

### **Hot-Film Anemometer Systems**

The hot-film system used constant temperature hot-film anemometers which are described in reference 13. The frequency modulation (FM) recorded hot-film data had a frequency response of 10 kHz. The hot-film sensors, as shown in figure 5, were mounted along a line oriented 30°-inboard relative to each orifice row, as indicated in figure 4. This was done to minimize any flow disturbance from one sensor affecting another. (The flow is turbulent after each sensor.) Each hot-film sensor was oriented streamwise to the flow for a wing sweep of 20°. Five hot-film sensors were operational for each flight. The location of the operational hot films varied from flight to flight as shown in table 2.

### **Boundary-Layer Rakes**

Each boundary-layer rake consisted of 20 pitot pressure probes. To obtain more measurements close to the glove surface, the probes were mounted along a 4-in. slanted strut which was skewed 30° to the plane of the glove surface (fig. 6). With this type of rake orientation, the maximum probe distance from the glove surface was approximately 2.5 in. The rake probes were chamfered for less sensitivity to flow angularity. Each rake was oriented streamwise with the flow for a wing sweep of 20°. The pressures were measured with an electronic scanning pressure module. The maximum tube lengths were approximately 10 ft. The boundary-layer rake probe heights are presented in table 3.

### **Dynamic Pressure Transducers (Microphones)**

Three dynamic pressure transducers (microphones) were used to survey the noise environment at the leading edge of the glove. The transducers were embedded flush to the glove surface. As shown in figure 4, there is one microphone for each test station located at approximately 3-percent chord, just inboard of each orifice row. The microphones were approximately 0.25 in. in diameter. The microphones at the inboard and outboard stations were located on the upper surface of the glove, and the middle section microphone was located on the lower surface of the glove. The output signal of each microphone was recorded on an onboard tape recorder and plotted after each flight. The frequency response of the FM recorded microphone data was 10 kHz. The microphones were positioned to be in laminar flow for most of the flight conditions.

## Charge Patch

For the VSTFE program, a charge patch was used to detect the presence of ice particles or cirrus clouds. The charge patch was a 6-ft long portion of the left vertical tail shown in figure 7. The charge patch was, in an electronic sense, an isolated part of the airplane. The level of the charging current on the charge patch was monitored in real time and recorded during each flight.

The charge patch builds up a charge with the impact of particles, creating a current. The current created by the particles is measured in microamps, grows as a function of particle impacts, and dissipates as particle impacts cease. Changes in the current, not the magnitude of the current, are the prime indicators of encounters with particles. A detailed description of the charge patch can be found in reference 17.

## Uplink Guidance System

The uplink is a flight trajectory guidance system which uses an analog cockpit display that indicates deviations from the desired flight conditions in real time. In the VSTFE, the uplink was used to obtain accurate flight conditions for each test point in a timely manner. The parameters used to guide the pilot were freestream Mach number ( $M$ ), angle of attack ( $\alpha$ ), angle of sideslip ( $\beta$ ), and altitude ( $h_p$ ). The uplink guidance system is discussed in detail in reference 18.

## Aircraft Instrumentation

The airdata system, a standard NACA/NASA airdata head, was used to measure aircraft total and static pressures, angle of attack, and angle of sideslip. The total and static pressures were used to calculate parameters such as Mach number and dynamic pressure. Airspeed calibration data were obtained from a tower fly-by method and an acceleration-deceleration method (refs. 19 and 20). A complete description of the airdata system is found in reference 21. The angle of attack and sideslip flow direction vanes were mounted on the noseboom. Angle of attack was corrected for upwash and fuselage bending as described in reference 21.

## Accuracy

The pressure range for the transducers was scaled for the desired flight conditions. The hot-film sensor and the microphone signals were calibrated and were responsive to a frequency well above 10 kHz, the frequency response of the FM tape recorder.

The estimated error in the flight measurements was as follows:

|                                      |                           |
|--------------------------------------|---------------------------|
| coefficient of pressure ( $C_p$ )    | $\pm 0.01$                |
| Mach number ( $M$ )                  | $\pm 0.005$               |
| angle of attack ( $\alpha$ )         | $\pm 0.5^\circ$           |
| angle of sideslip ( $\beta$ )        | $\pm 0.5^\circ$           |
| freestream static pressure ( $p_s$ ) | $\pm 0.7 \text{ lb/ft}^2$ |
| total pressure ( $p_t$ )             | $\pm 0.7 \text{ lb/ft}^2$ |

## FLIGHT-TEST CONDITIONS AND PROCEDURES

Glove 1 was tested at leading-edge sweep angles varying from 20 to 35°. Transition data at 15° of equivalent sweep were obtained by using a 5°-nose-right sideslip maneuver. The Reynolds number ranged from approximately

$1 \times 10^6$  to  $4 \times 10^6$ /ft, which corresponds to minimum and maximum chord Reynolds numbers of  $5 \times 10^6$  and  $34 \times 10^6$ , respectively. The conditions at which transition data were obtained are listed in table 4.

The glove 1 flight-test program was divided into two phases. The phase 1 flights were designed to clear an operating envelope and to calibrate the aircraft airspeed system. The operating envelope for the glove 1 flights is shown in figure 8. The maximum airspeed limit for the aircraft with the glove installed was 450 kn indicated airspeed or  $M = 0.900$ , whichever occurred first.

The laminar-flow data flights, phase 2, were conducted within the cleared envelope. Transition was determined using the previously described hot-film sensors and boundary-layer rakes.

Test conditions were selected to establish a database documenting the boundary-layer transition location as a function of angle of attack, Mach number, and Reynolds number (altitude). Maneuvers performed consisted primarily of trim points, level turns, and pushovers. Level turns were used to obtain data at greater than 1-g trim angles of attack, particularly at low altitudes (high dynamic pressures). Constant-g pushovers were used to obtain data at less than 1-g trim angles of attack.

Limited data were obtained at two additional test conditions. The first condition was flying with the left engine throttled back to examine the effects of engine noise on transition. The second test condition was flying through cirrus clouds to determine the effects of cirrus clouds on laminar flow.

Following each flight, the glove was inspected for surface cracks and insect impacts. The majority of the insect impacts occurred forward of 10-percent chord and, with very few exceptions, were not large enough to cause transition at the test altitudes. Although minor surface cracks were noted in the glove after the third flight, the glove surface remained within the established surface waviness tolerance. The conditions of the wing with respect to insect impacts, surface imperfections, and damage to the wing instrumentation were documented after each flight. The glove was cleaned and all necessary repairs to the glove instrumentation were made prior to each flight.

## PRESENTATION OF RESULTS

Selected data are presented to illustrate the observed trends in the transition location (figs. 9 to 28). The flight conditions for these data are presented in the List of Figures. A microfiche supplement is provided which contains tabulated glove section pressure coefficients (table 5) and boundary-layer velocity profile (table 6) data. A tabulation of transition location obtained from the hot-film sensors for each test point is provided in table 7.

## RESULTS AND DISCUSSION

The glove 1 transition results presented were primarily determined from hot-film sensors. Limited results from the boundary-layer rakes are also presented. The results include the effects of pressure distribution, angle of attack, Reynolds number, Mach number, engine noise, and cirrus clouds, in addition to the effects of wing sweep. Based on the analysis reported in reference 13, the hot-film and boundary-layer data were found to be the most repeatable. Thus results from the surface pitot tubes and flow visualization photos are not presented in this report.

### Pressure Distributions

Figure 9 presents typical pressure distributions for the middle station at trim angles of attack and Mach numbers of 0.700 and 0.800. Although not shown, the pressure distributions for the inboard and outboard stations were similar.

The most notable characteristic is the change in leading-edge pressure gradient and pressure distribution shape with Mach number. At  $M = 0.700$ , the pressure distribution has a mildly favorable gradient that extends to about

0.3  $x/c$ ; the pressure distribution then becomes mildly adverse. At  $M = 0.800$ , the pressure distribution has a steep favorable gradient that extends to at least 0.5  $x/c$ , where a normal shock occurs. One undesirable characteristic of the pressure distribution at  $M = 0.700$  is the formation of an adverse pressure gradient (AG) near the leading edge for the two higher angles of attack shown in figure 9. This AG can preclude laminar flow aft of the leading-edge region. However, these undesirable characteristics in the pressure distribution were alleviated by decreasing the angle of attack. This is done by performing the pushover maneuver, mentioned earlier and described in reference 11.

## Transition Data

### Trends in the Transition Database

Presented in figure 10(a) is a graph of transition location and the beginning of the AG as a function of angle of attack for  $\Lambda = 20^\circ$ ,  $M = 0.700$ , and  $h_p = 35,000$  ft. Figures 10(b) and (c) provide pressure distributions for two discrete angles of attack. Data for all three stations are shown.

In figure 10(a) transition occurs aft of the AG, at all three stations except for one point at the inboard station. Below  $\alpha = 2.0^\circ$ , the greatest difference between transition and the AG occurs at the middle station where AG occurs at 0.25  $x/c$  and transition occurs at 0.40  $x/c$ .

The corresponding pressure distribution in figure 10(b),  $\alpha = 0.84^\circ$ , has a mildly favorable pressure gradient (negative slope, note sign convention) which gradually becomes unfavorable (positive slope) at all three stations. This trend is typical of the pressure distributions at  $M = 0.700$ . This gradual occurrence of the AG was always present in cases where transition occurred aft of the AG. This is an indication that laminar flow can be maintained in a small amount of AG.

Transition is observed to be moving forward as angle of attack increases in figure 10(a). This transition is a result of the leading-edge peak that occurs in the pressure distribution for the higher angle-of-attack values as shown in figure 10(c), for  $\alpha = 3.4^\circ$ , and in figure 9. It is important to note that transition still occurs aft of the AG created by the leading-edge peak.

Another example of transition data at a condition with a mildly favorable pressure gradient, but for  $35^\circ$  of sweep, is shown in figure 11(a), for  $M = 0.700$  and  $h_p = 35,000$  ft. For  $\alpha < 2.0^\circ$ , transition at this condition occurs before the AG at all three stations, presumably because of crossflow disturbances. One exception which does occur at the AG is the maximum transition location, 0.35  $x/c$ , occurring at the middle station. This is an encouraging laminar flow distance for  $35^\circ$  of leading-edge sweep.

The pressure distribution for a low angle of attack of  $0.22^\circ$ , (fig. 11(b)), has favorable pressure gradients to approximately 0.20–0.25  $x/c$  at the inboard station, 0.25–0.30  $x/c$  at the middle station, and 0.35–0.40  $x/c$  at the outboard station. This type of mildly favorable or flat pressure distribution, shown in figure 11(b), resulted in the most aft transition location for the higher sweeps.

The AG remains constant at this condition to approximately  $\alpha = 1.6^\circ$ , then moves forward with increasing angle of attack. An example of a pressure distribution for a higher angle of attack,  $1.57^\circ$ , is figure 11(c). Here the pressure coefficients near the leading edge have increased, resulting in a slight peak and relatively flat pressure gradients to approximately 0.25  $x/c$  at all three stations.

Figure 12(a) is an example of transition data at a condition where the pressure distribution has a steep favorable pressure gradient. Figure 12(a) shows the transition location and AG as a function of angle of attack for  $\Lambda = 20^\circ$ ,  $M = 0.800$ , and  $h_p = 35,000$  ft. Pressure distributions at two discrete angle-of-attack values are shown in figures 12(b) and (c) for the same flight condition. Transition at this condition occurs very near ( $\pm 0.025$   $x/c$ ) or forward of the AG. Transition at the inboard section occurs forward of the middle and outboard sections.

The pressure distributions shown in figures 12(b) and (c) have steep favorable gradients, which end abruptly with a normal shock. The exception to this is the inboard section pressure distribution at  $\alpha = 1.46^\circ$ , figure 12(c), where the pressure gradient flattens out from 0.30 to 0.45  $x/c$  before ending with a normal shock. These results are consistent trends in the transition database as a whole.

### Maximum Transition Locations

Figures 13 through 17 present the most aft transition locations observed as a function of sweep for the inboard, middle, and outboard stations for all test conditions, except for stations where no transition data were obtained. These values were determined from the hot-film data exclusively. At conditions where the furthest forward hot-film sensor, 0.10  $x/c$ , indicated turbulent flow transition was estimated to be at 0.05  $x/c$ .

In figures 13 through 17 the transition location moves forward with increasing sweep in all cases. In addition, the effects of sweep on the forward movement of transition become more pronounced with increasing Mach number. As noted earlier, the pressure distributions have a very steep favorable gradient at  $M = 0.800$ , relative to  $M = 0.700$ . While for a given Mach number, the steep favorable pressure gradient delays the onset of transition at the lower sweep angles ( $\leq 20^\circ$ ); a steep pressure gradient can encourage transition at the higher sweep angles ( $\geq 20^\circ$ ). This is presumably because a steep pressure gradient increases the growth rate of cross flow disturbances resulting in the forward movement of the transition location.

At 35,000 ft, sweep angles of  $30^\circ$  and  $35^\circ$ , and  $M = 0.700$ , laminar flow was maintained to 0.4  $x/c$  and 0.35  $x/c$  respectively. With increasing Mach number, the most aft transition locations moved forward. This can be seen in figure 17. In addition to the higher unit Reynolds numbers at  $M = 0.800$ , one factor contributing to the forward movement of transition is the change in pressure distribution with increased Mach number.

In general, transition occurred earliest at the inboard station. This transition was expected since the inboard pressure distribution had a lower amount of chordwise favorable gradient relative to the middle and outboard station as shown in the pressure distribution portions of figures 10, 11, and 12. A comparison of figures 13 through 17 also shows transition moving aft with increasing altitude—decreasing Reynolds number, which is an expected result.

### Maximum Transition Reynolds Number

Figure 18 presents the maximum transition Reynolds number as a function of sweep for  $M = 0.700$ , 0.750, and 0.800. At  $30^\circ$  and  $35^\circ$ , the most aft transition location and the greatest transition Reynolds numbers occurred at  $M = 0.700$  (figs. 11 and 18). Transition at these conditions was generally presumed to be caused by cross flow disturbances, however, the furthest aft transition locations were caused by loss of a favorable pressure gradient. These transition results indicate that a pressure distribution with a mildly favorable pressure gradient, like those obtained at  $M = 0.700$ , are the most promising for laminar flow at sweeps above  $20^\circ$ .

The most aft transition location and maximum transition Reynolds number for  $15^\circ$  to  $20^\circ$  of sweep occurred at  $M = 0.800$ . Transition at these conditions was caused by the loss of favorable pressure gradient resulting from a normal shock. These transition results indicate that a pressure distribution with a steep favorable pressure gradient, like those obtained at  $M = 0.800$ , are the most promising for laminar flow at sweeps below  $20^\circ$ .

The maximum transition Reynolds number,  $13.69 \times 10^6$ , occurred at the middle station for  $M = 0.800$ ,  $h_p = 20,000$  ft, and an equivalent sweep of  $15^\circ$  (fig. 18). Table 8 presents the most aft transition obtained at each sweep angle and the flight conditions for which they occurred. Table 9 presents the maximum transition Reynolds number obtained at each sweep angle and the cause of transition.

## Momentum Thickness Related to Skin Friction

Momentum thickness,  $\theta$ , is directly related to skin friction and can be used as an indicator of the reduction in skin friction associated with maintaining an appreciable amount of laminar flow, that is, delaying transition to turbulent flow. Figures 19 through 21 present momentum thickness as a function of transition location at Mach numbers of 0.700 and 0.800 and sweeps of 20° and 35°. Assuming transition for a wing not designed for laminar flow occurs at 0.1  $x/c$ , the maximum reduction in momentum thickness is approximately 58 percent. This can be noted in figures 19 through 22 as occurring at the outboard station for 20° of sweep,  $M = 0.700$ , and an altitude of 35,000 ft.

Two qualifying statements apply to the momentum thickness data presented. First, this experiment was not intended to be a complete airfoil test; only the forward 60-percent portion of the upper wing surface was gloved, and these results indicate an optimum reduction on the upper surface of only the middle and outboard stations. Second, these results were not all obtained at working lift coefficients; either a pushover or a windup turn maneuver was required to attain the conditions that would provide extensive laminar flow. However, there is no reason to expect that an airfoil contoured specifically for high-altitude lift coefficients could not attain comparable amounts of laminar flow at working or cruise lift coefficients.

## Effects of Engine Noise on Transition

Noise levels for a sweep of 20°, trim angle of attack, and altitudes of 20,000 and 35,000 ft are presented in figures 22 and 23 for Mach numbers of 0.700 and 0.800 respectively. These noise levels are representative of those measured on the leading edge of the glove in a laminar-boundary layer. However, a leading-edge peak in the lower surface pressure distribution at lower angles of attack (that is,  $\alpha < 0.5^\circ$ ) may have caused turbulent flow at the middle microphone. These noise levels did not vary with sweep.

Noise levels for two engine conditions are compared in figure 24. The first condition was with the left engine at the normal throttle setting and the second was with the left engine throttled back. The figure is for  $\Lambda = 30^\circ$ ,  $M \simeq 0.750$ , and  $h_p = 35,000$  ft, at three different angle-of-attack values. Transition data at the middle station are shown for these tests on the middle station graphs.

Changes in the noise levels seen when the engine is throttled back are shown in figure 24. The most notable change is at the middle station where the noise level increases at the throttled-back engine setting. This increase in noise level may be caused by increased inlet noise which can occur when an engine is throttled back. The increase in noise level does change the transition location at the middle section. However, the change in transition was slight,  $\pm 0.05 x/c$ , forward and aft with the engine throttled back and was not consistent with the engine throttle setting. Based on these typical results, the effects of engine noise on transition have been determined negligible.

## Effects of Cirrus Clouds on Transition

A limited amount of data were obtained while the aircraft was flying through high-altitude cirrus clouds. Clouds typical of the type flown through are shown photographed from the ground in figure 25. Figure 26 shows hot-film and charge-patch signals without cloud encounters. Figures 28 and 29 show hot-film and charge-patch signals during cloud encounters.

Hot-film data obtained in clear skies are shown in figure 26(a). Each hot-film signal represents a different state of flow conditions from laminar to fully developed turbulent flow. The signals shown in figure 26(a) are used as a reference for comparison with the hot-film signals of figures 27 and 28. A detailed description on the method of interpretation of the hot-film signals is contained in reference 13.

A typical charge-patch signal is shown in figure 26(b). As previously discussed, the absolute magnitude of the signal is unimportant since the change in magnitude is the prime indicator of the presence of clouds. Figure 26(b) depicts a charge-patch output with no change in the magnitude, indicating no clouds.

Hot-film and charge-patch outputs obtained during a cloud encounter are presented in figure 27 for  $\Lambda = 25^\circ$ ,  $M = 0.800$ , and  $h_p = 35,000$  ft. Comparing the hot-film signals to the reference hot-film signals of figure 26(a), the 0.10, 0.20, 0.30, and 0.40  $x/c$  signals appear mostly laminar (low-amplitude portions of signals) with turbulent bursts (high-amplitude spikes in signal). The amount of turbulent bursts increased as the hot-film location moved aft. Figure 28(b) shows the output of the charge patch for the same interval. The charge-patch signal shows several increases in amperage, indicating that particles were encountered. The turbulent bursts seen in the hot-film signals are presumed to be caused by the presence of clouds. Without the presence of clouds, transition occurred as far aft as 0.5  $x/c$ , as indicated in figure 17.

The 0.5  $x/c$  hot-film signal of figure 27(a) does not resemble any of the reference hot-film signals of figure 27. This signal has many high-amplitude spikes in an upward direction that would indicate laminar flow with turbulent spikes. However, there are a few downward spikes and areas where the signal indicates turbulent flow. Therefore, the 0.5  $x/c$  signal is interpreted as being a turbulent signal with transition occurring between 0.4 and 0.5  $x/c$ . The high-amplitude spikes in the upward direction indicate flow disturbances that may be attributed to the presence of clouds which have ice particles. This conclusion is confirmed by the charge-patch signal of figure 27(b).

Figure 28 presents data for  $\Lambda = 25^\circ$ ,  $M = 0.790$ , and  $h_p = 33,000$  ft during a cloud encounter where the cloud particles did not have an appreciable effect on the boundary-layer flow. The hot-film signals, shown in figure 28(a), do not exhibit interferences from cloud encounters as previously discussed. However, the corresponding charge-patch signal, figure 28(b) shows several areas of increased amperage indicating the presence of ice particles. Transition in this case is at approximately 0.4  $x/c$ . These two examples are typical of the mixed results obtained in the cirrus cloud data. Based on these results, no conclusions were made regarding the effect of cirrus clouds on natural laminar flow in this experiment. A discussion of the effects of cirrus clouds on laminar flow is found in reference 17.

## CONCLUDING REMARKS

The results of the F-14 variable-sweep transition flight experiment (VSTFE), glove 1 flight tests are presented herein. Transition location was determined as a function of wing sweep with respect to glove pressure distribution, Reynolds number, Mach number, and angle of attack. The transition data presented have been obtained primarily from hot-film sensors, with limited data also obtained from boundary-layer rakes. Limited data were obtained for evaluating the effects of engine noise and cirrus clouds on transition location. Transition data were obtained for leading-edge sweeps of 15 to 35°, Mach numbers ranging from 0.700 to 0.825, and altitudes ranging from 10,000 to 35,000 ft. The following summarizes the trends noted in the data.

The maximum transition Reynolds number obtained was  $13.69 \times 10^6$  occurring at the middle test section for 15° of wing sweep, Mach number of 0.800, and an altitude of 20,000 ft.

The favorable pressure gradients for maintaining laminar flow ranged from steep at  $M = 0.800$ , to mildly favorable, at  $M = 0.700$ . The steep pressure gradient at  $M = 0.800$  resulted in the furthest aft transition location for 15° and 20° of sweep, however this type of pressure gradient did not encourage laminar flow for sweeps of 25° and above. This trend was observed at all altitudes, despite the lower unit Reynolds numbers at 35,000 ft.

At an altitude of 35,000 ft, Mach number of 0.700, and 30° of sweep, laminar flow was maintained to 40-percent chord maximum and 35-percent chord maximum at 35° of sweep for the same flight conditions. These are encouraging results because sweep is believed to severely inhibit laminar flow.

At  $M = 0.700$ , transition tended to occur after the beginning of the AG. This is an indication that laminar flow can be maintained with a small, chordwise amount of AG.

As expected, transition moved aft with decreasing unit Reynolds number. Noise from the engines (based on changes in engine throttle setting) was not a significant factor affecting transition. Because of a limited amount of data obtained, no conclusions have been made regarding the effects of cirrus clouds in this experiment.

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Edwards, California, November 7, 1989*



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Table 1. Surface pressure orifice locations.

| Location      | BL station,<br>in. | Chord,<br>in. | Chord,<br>percent  |
|---------------|--------------------|---------------|--|
| Inboard       | 200.9              | 103.7         |  |
| Middle        | 260.0              | 84.8          |  |
| Outboard      | 320.0              | 65.4          |  |
| Upper surface |                    |               | 0.0, 0.5, 1.0, 2.0,<br>4.0, 6.0, 8.0, 10.0,<br>12.0, 15.0, 17.0,<br>20.0, 25.0, 30.0,<br>35.0, 40.0, 45.0,<br>50.0, 55.0 |
| Lower surface |                    |               | 0.5, 1.0   |

Table 2. Hot-film gage locations, percent chord.

| Flight | Inboard,<br>(BL 162-196 in.) | Middle,<br>(BL 228-256 in.)      | Outboard,<br>(BL 294-316 in.)   |
|--------|------------------------------|----------------------------------|---------------------------------|
| 12     | No hot-film gages            | No hot-film gages                | 10.8, 15.0, 20.0,<br>30.0, 40.8 |
| 13     | ↓                            | No hot-film gages                | 10.8, 20.0, 30.0,<br>40.8, 50.0 |
| 15-21  |                              | 11.1, 20.0, 30.0,<br>40.0, 50.0  | No hot-film gages               |
| 22-25  |                              | 11.3, 20, 30, 41.3,<br>50.0      | No hot-film gages               |
| 25-30  | No hot-film gages            | 11.3, 20.0, 30.0,<br>41.3, 50.0  | ↓                               |
| 31     | ↓                            | Gain of 8 on hot-<br>film gages  |                                 |
| 32     |                              | Gain of 25 on hot-<br>film gages |                                 |
| 33     |                              | ↓                                |                                 |
| 34, 35 | No hot-film gages            | No hot-film gages                | 10.0, 20.0, 30.0,<br>40.0, 50.0 |

Table 3. Boundary-layer rake locations.

| Locations               | Rake 1 | Rake 2 |
|-------------------------|--------|--------|
| BL station, in.         | 230    | 290    |
| Chord, percent          | 55.0   | 55.0   |
| Rake probe heights, in. | 0.03   | 0.04   |
|                         | 0.05   | 0.07   |
|                         | 0.11   | 0.12   |
|                         | 0.17   | 0.18   |
|                         | 0.22   | 0.21   |
|                         | 0.27   | 0.27   |
|                         | 0.32   | 0.31   |
|                         | 0.36   | 0.37   |
|                         | 0.41   | 0.42   |
|                         | 0.51   | 0.53   |
|                         | 0.72   | 0.73   |
|                         | 0.91   | 0.94   |
|                         | 1.11   | 1.15   |
|                         | 1.30   | 1.35   |
|                         | 1.53   | 1.55   |
|                         | 1.74   | 1.75   |
|                         | 1.95   | 1.95   |
|                         | 2.14   | 2.16   |
|                         | 2.35   | 2.37   |
|                         | 2.55   | 2.58   |

Table 4. Test conditions.

| Sweep,<br>deg | Sideslip,<br>deg |
|---------------|------------------|
| 20            | 0, -5, +5        |
| 25            | 0                |
| 30            | 0                |
| 35            | 0                |

$M = 0.700, 0.750,$   
 $0.800, 0.825$   
 $hp = 10,000, 20,000,$   
 $25,000, 30,000,$   
 $35,000$   
 $\alpha = 0^\circ \text{ to } 5^\circ$

Table 5. Glove section pressure coefficients.  
Microfiche pages m-1 through m-1114.

Table 6. Boundary-layer velocity profile data.  
Microfiche pages m-1115 through m-2260.

Table 7. Boundary-layer transition locations.  
Microfiche pages m-2261 through m-2288.

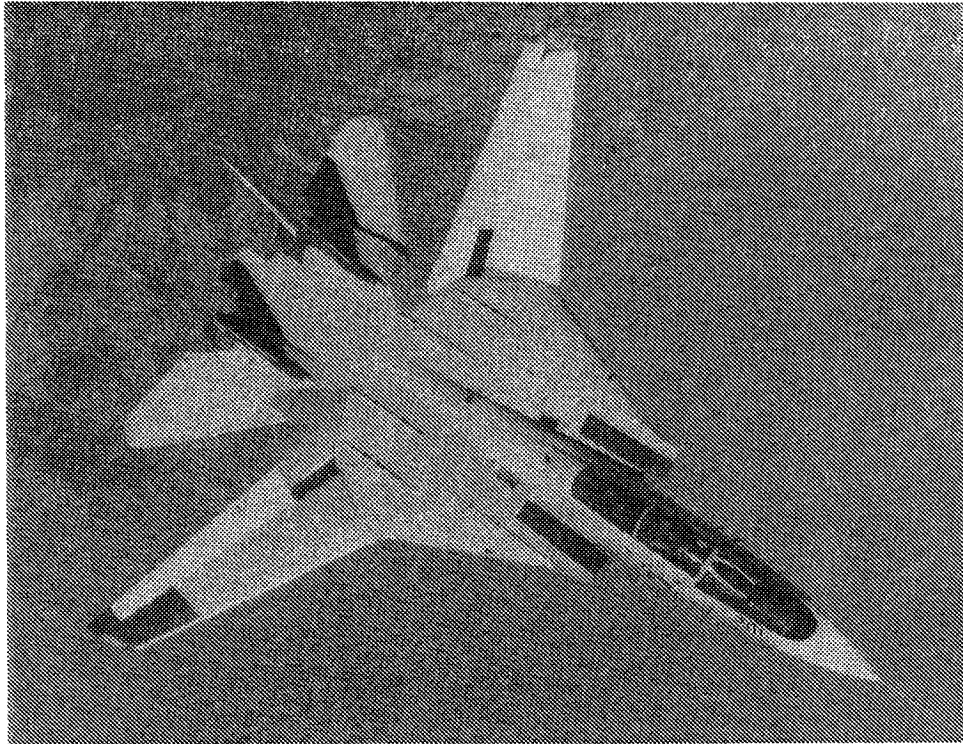
Tables 5-7 are in the microfiche supplement included with this report and are also available on disk from the author upon request.

Table 8. Maximum transition location for each sweep angle, middle station.

| Leading-edge<br>wing sweep, deg | $(x/c)_T$ | Mach<br>number | Altitude,<br>ft  | Apparent cause<br>of transition                            |
|---------------------------------|-----------|----------------|------------------|--|
| 15                              | 0.55      | 0.800          | 20,000<br>25,000 | Loss of favorable pressure<br>gradient due to normal shock |
| 20                              | 0.525     | 0.800          | 30,000<br>35,000 | Loss of favorable pressure<br>gradient due to normal shock |
| 25                              | 0.50      | 0.800          | 35,000           | Loss of favorable pressure<br>gradient due to normal shock |
| 30                              | 0.40      | 0.700          | 35,000           | Loss of favorable pressure<br>gradient                     |
| 35                              | 0.35      | 0.700          | 35,000           | Loss of favorable pressure<br>gradient                     |

Table 9. Maximum transition Reynolds number for each sweep angle, middle station.

| Leading-edge<br>wing sweep, deg | Transition Reynolds<br>number $\times 10^6$ | Mach<br>number | Altitude<br>ft | Apparent cause<br>of transition                            |
|---------------------------------|---|----------------|----------------|--|
| 15                              | 13.69                                       | 0.800          | 20,000         | Loss of favorable pressure<br>gradient due to normal shock |
| 20                              | 10.95                                       | 0.800          | 25,000         | Loss of favorable pressure<br>gradient due to normal shock |
| 25                              | 7.82  | 0.800          | 35,000         | Loss of favorable pressure<br>gradient due to normal shock |
| 30                              | 5.23  | 0.700          | 35,000         | Loss of favorable pressure<br>gradient                     |
| 35                              | 4.54  | 0.700          | 35,000         | Loss of favorable pressure<br>gradient                     |



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Figure 1. F-14A aircraft with glove 1 on left wing.

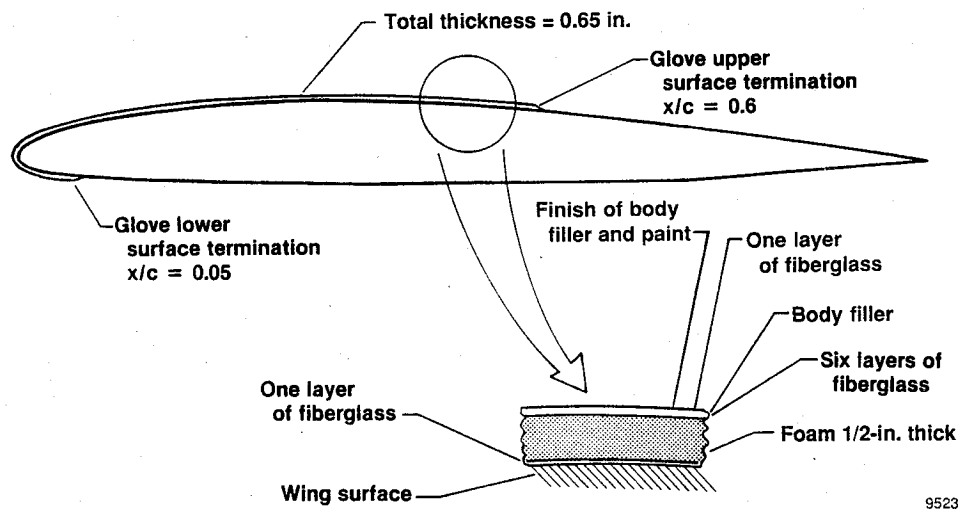
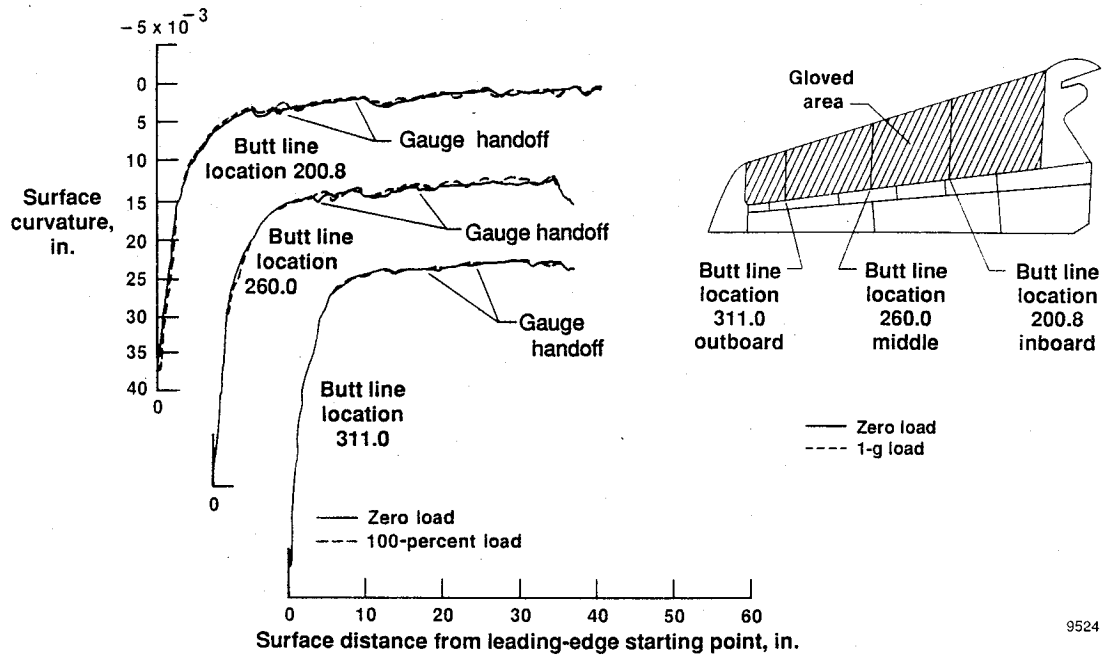


Figure 2. Typical glove 1 cross section.



(a) Waviness measurements.

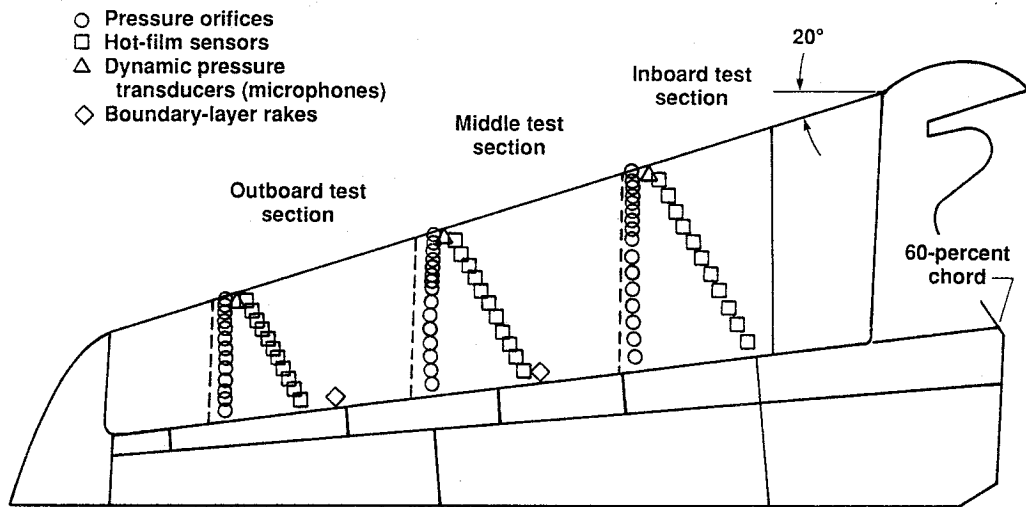


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(b) Mechanical deflection dial gauge used to measure glove surface curvature.

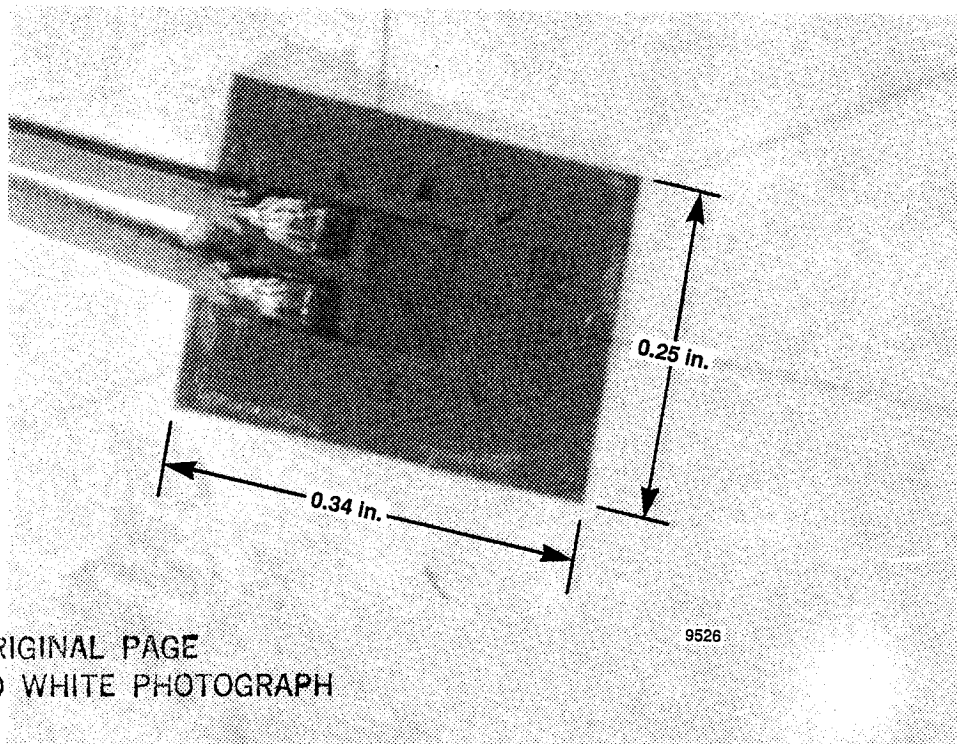
Figure 3. Glove 1 waviness.





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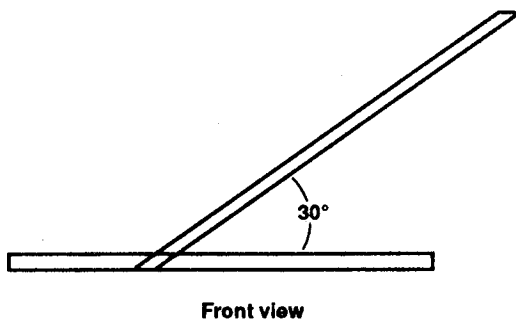
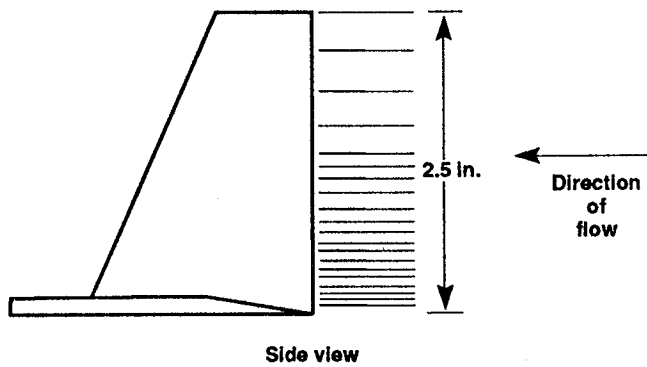
Figure 4. Glove 1 upper surface planform and instrumentation layout.



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Figure 5. Glove 1 hot-film sensor.



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Figure 6. Boundary-layer rake.



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Figure 7. Charge-patch location.

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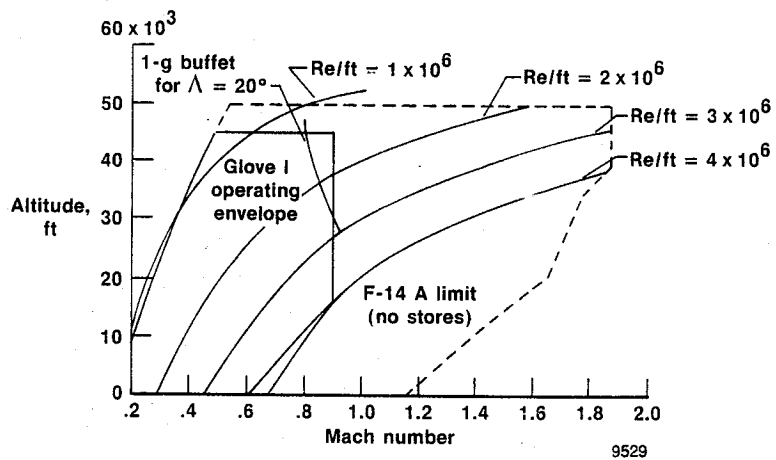


Figure 8. Glove 1 operating envelope.

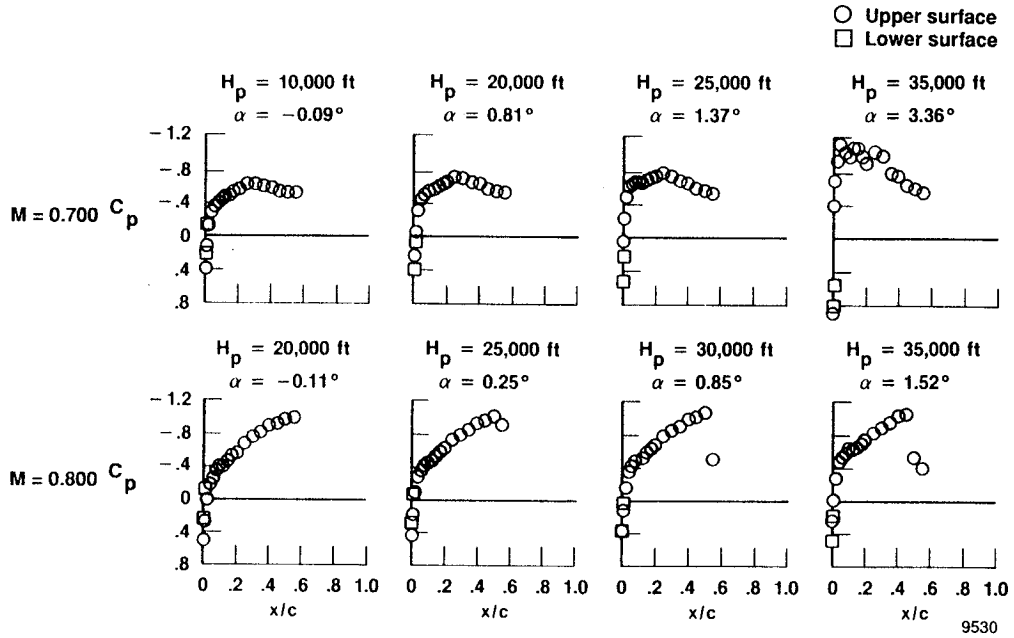
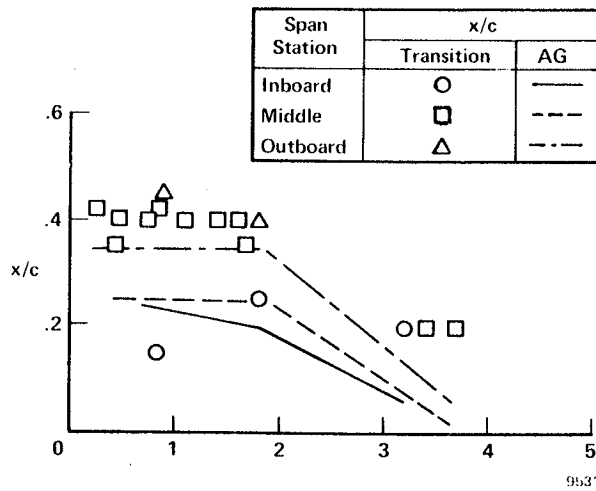
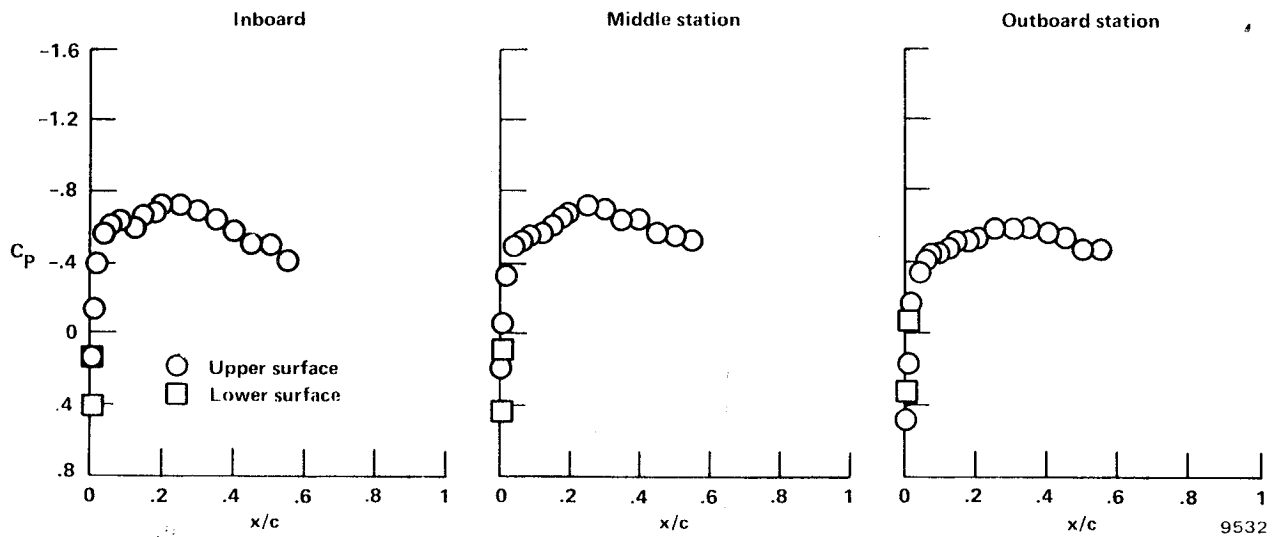


Figure 9. Glove 1 middle station pressure distributions;  $\alpha = \text{trim}$ ,  $\Lambda = 20^\circ$ .

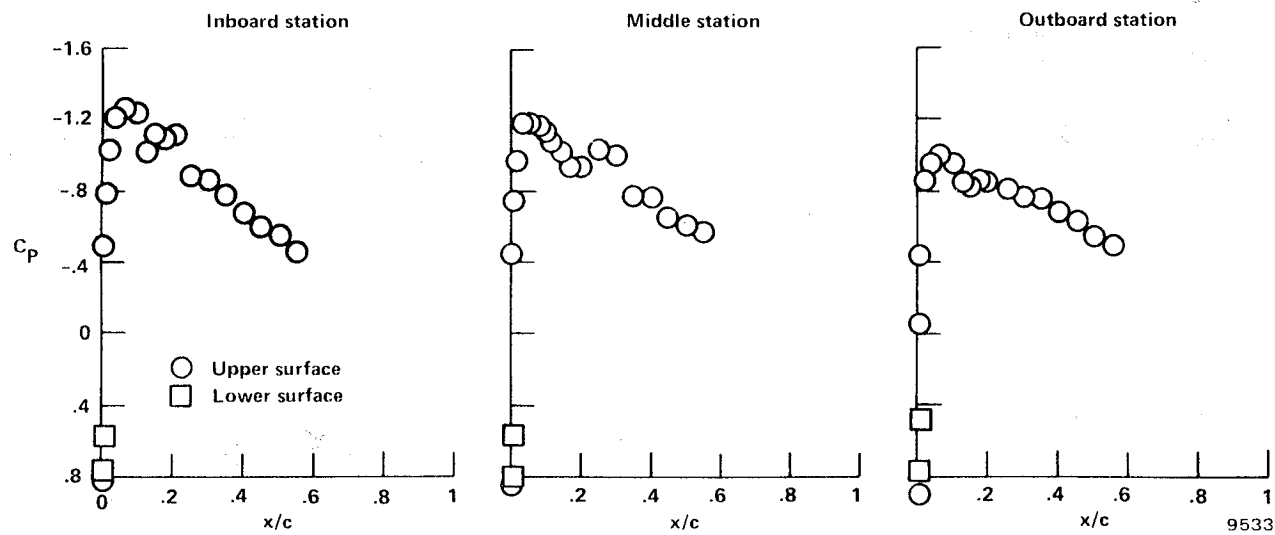


(a) Transition data.

Figure 10. Transition data and pressure distributions for  $M = 0.700$ ,  $\Lambda = 20^\circ$ , and  $h_p = 35,000$  ft.

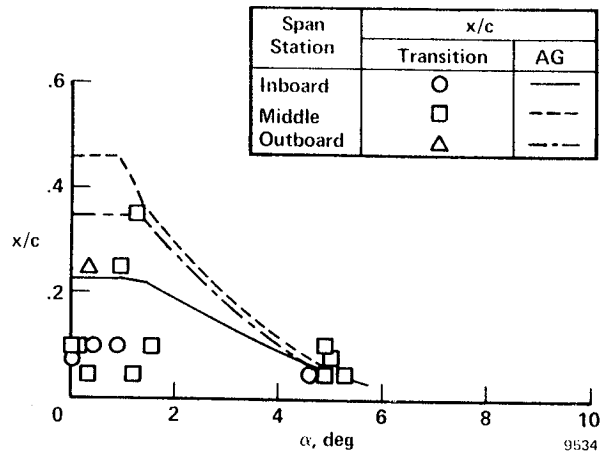


(b) Pressure distributions,  $\alpha = 0.84^\circ$ .

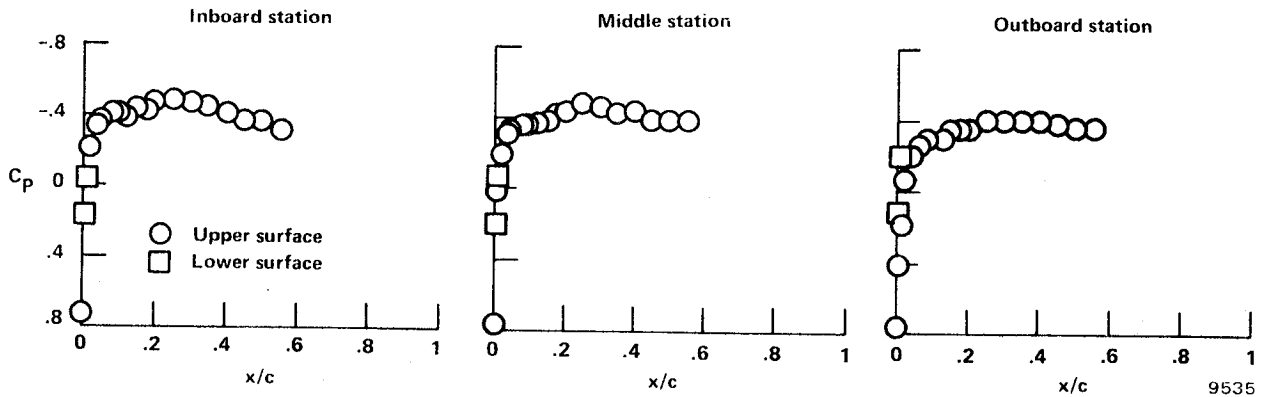


(c) Pressure distributions,  $\alpha = 3.4^\circ$ .

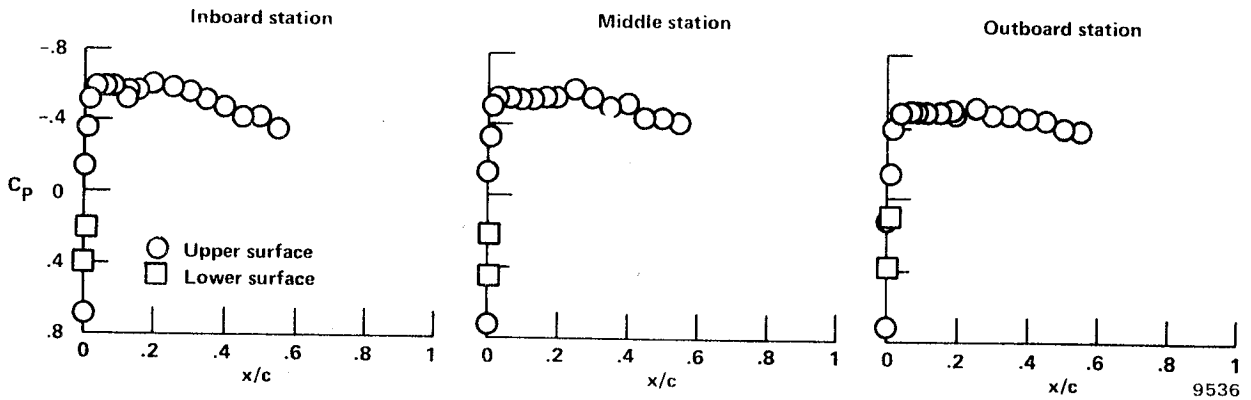
Figure 10. Concluded.



(a) Transition data.

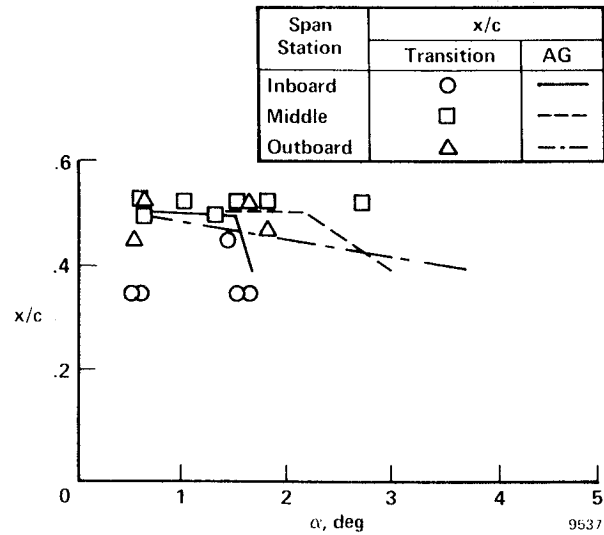


(b) Pressure distributions,  $\alpha = 0.22^\circ$ .

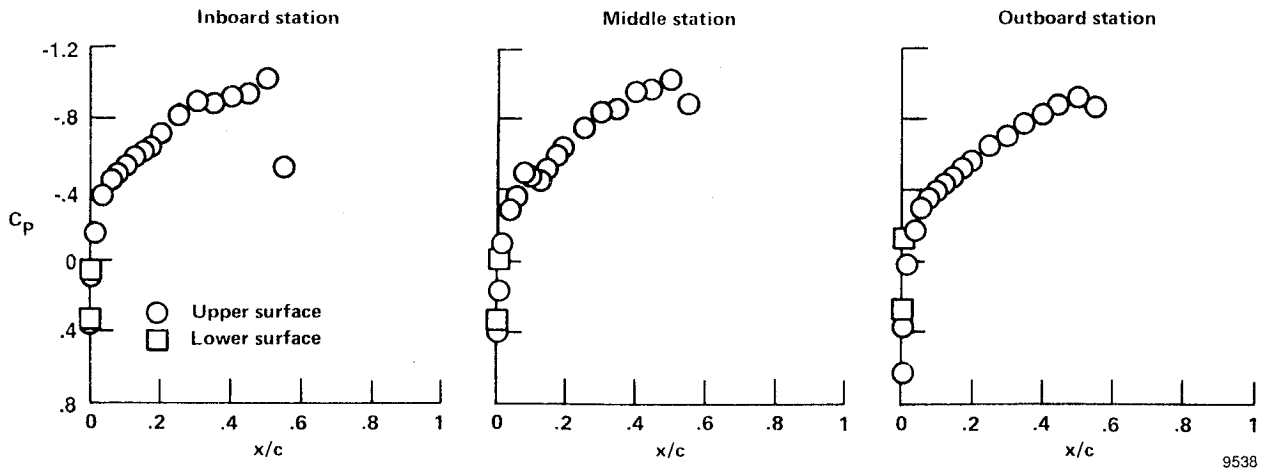


(c) Pressure distributions,  $\alpha = 1.57^\circ$ .

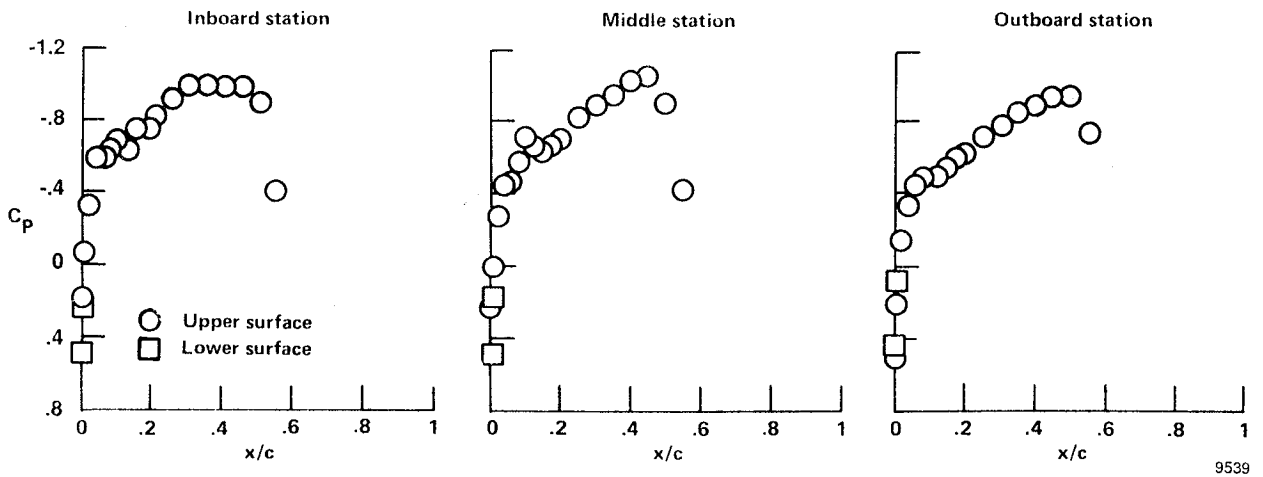
Figure 11. Transition data and pressure distributions for  $M = 0.700$ ,  $\Lambda = 35^\circ$ , and  $h_p = 35,000$  ft.



(a) Transition data.



(b) Pressure distributions,  $\alpha = 0.46^\circ$ .



(c) Pressure distributions,  $\alpha = 1.46^\circ$ .

Figure 12. Transition data and pressure distributions for  $M = 0.800$ ,  $\Lambda = 20^\circ$ , and  $h_p = 35,000$  ft.

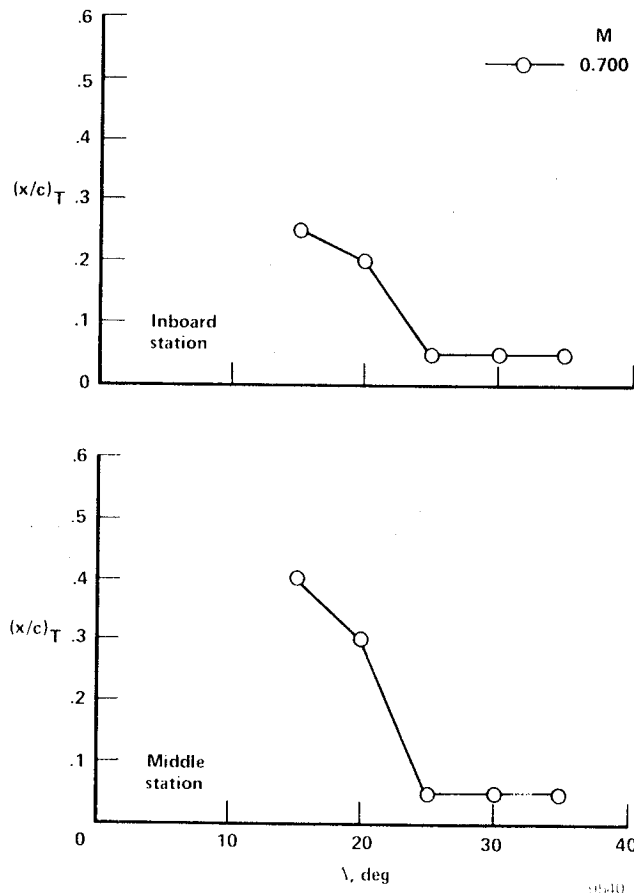


Figure 13. Maximum transition location as a function of sweep;  $M = 0.700$ ,  $h_p = 10,000$  ft.



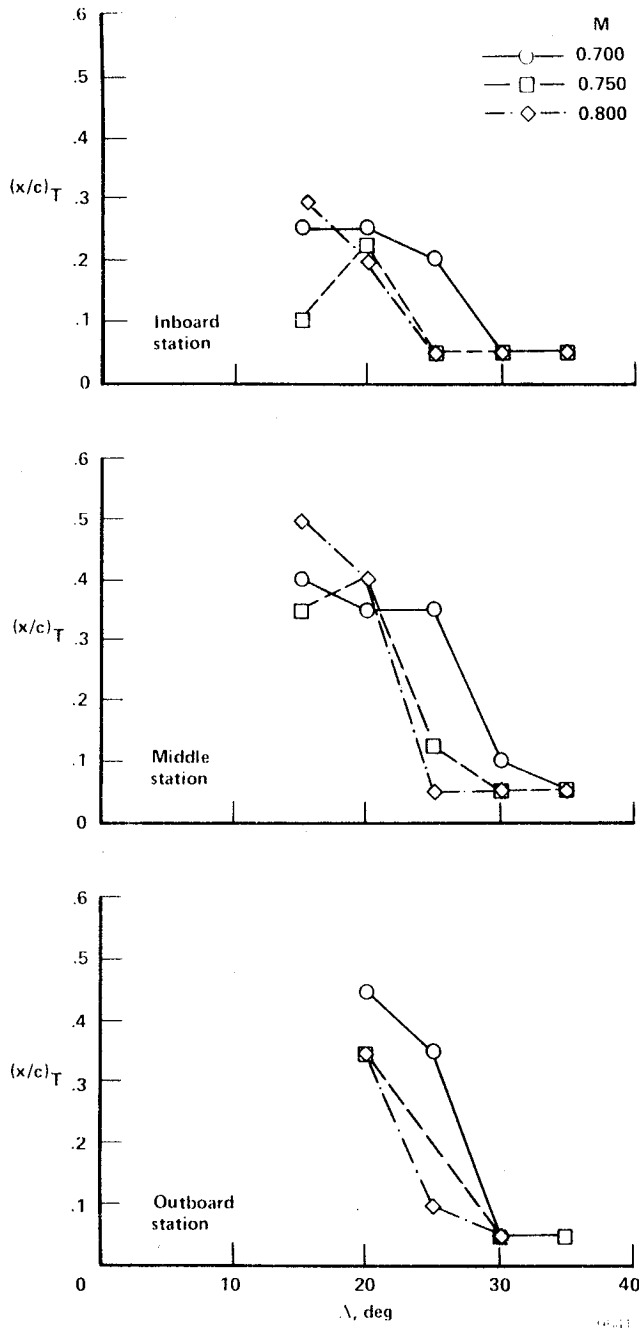


Figure 14. Maximum transition location as a function of sweep;  $M = 0.700, 0.750, 0.800$  and  $h_p = 20,000$  ft.

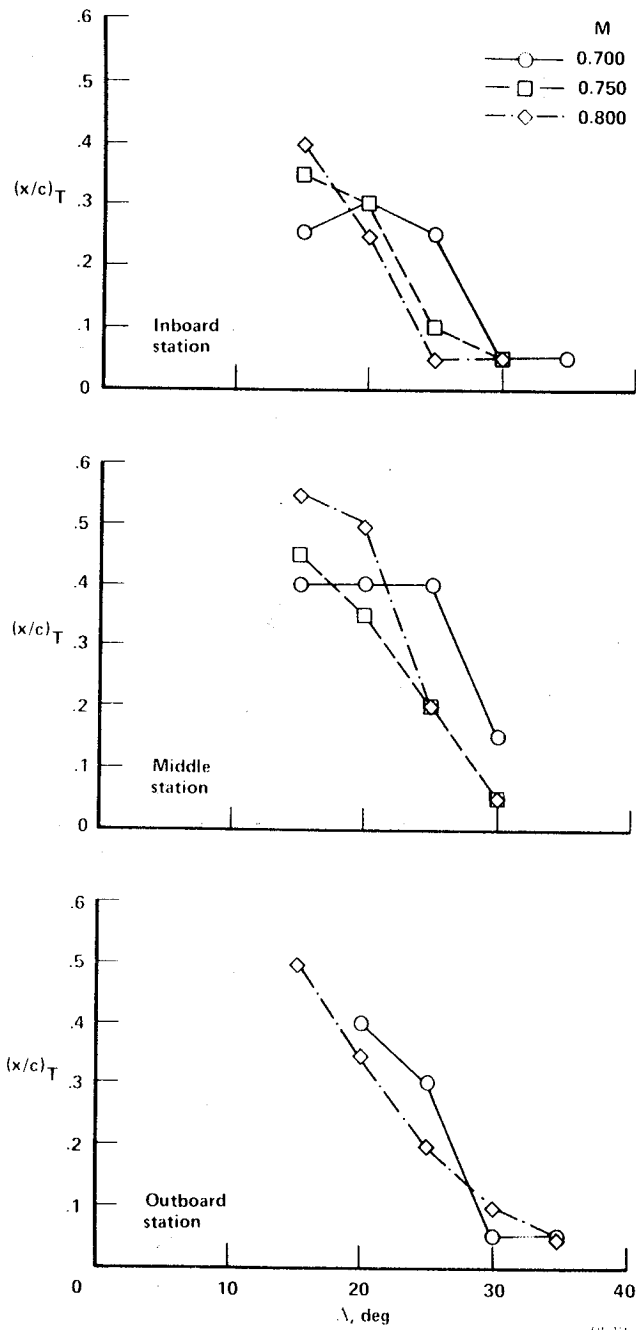


Figure 15. Maximum transition location as a function of sweep;  $M = 0.700, 0.750, 0.800$  and  $h_p = 25,000$  ft.

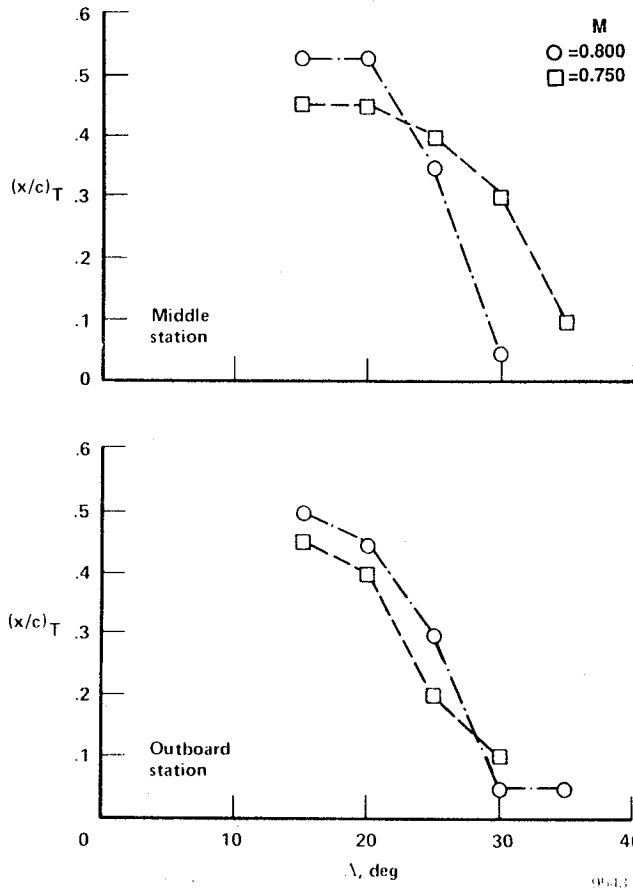


Figure 16. Maximum transition location as a function of sweep;  $M = 0.750, 0.800$  and  $h_p = 30,000$  ft.

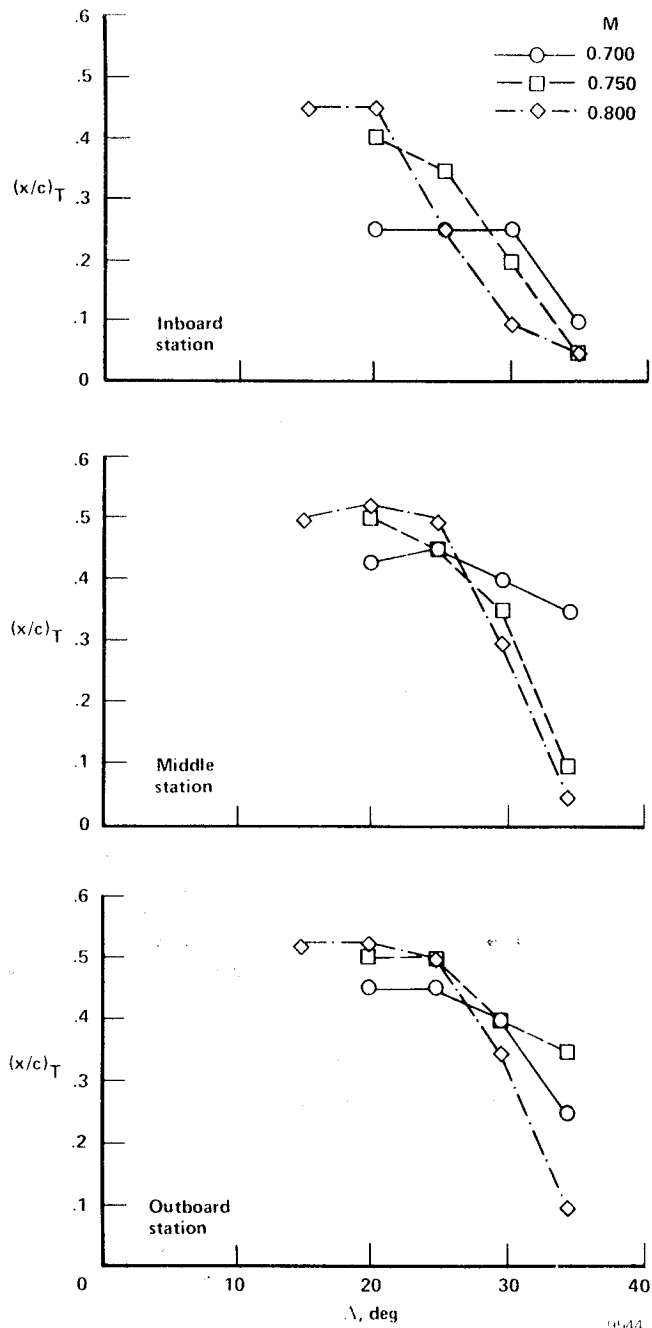


Figure 17. Maximum transition location as a function of sweep;  $M = 0.700, 0.750, 0.800$  and  $h_p = 35,000$  ft.

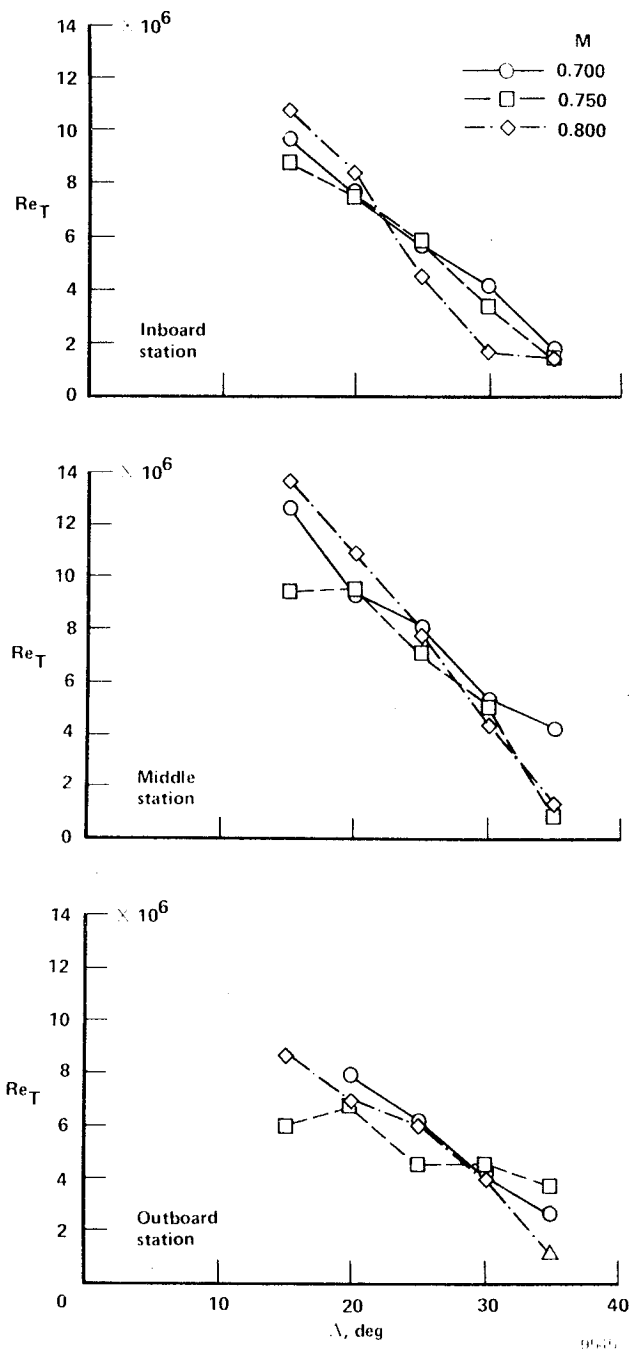


Figure 18. Maximum transition Reynolds number as a function of sweep.

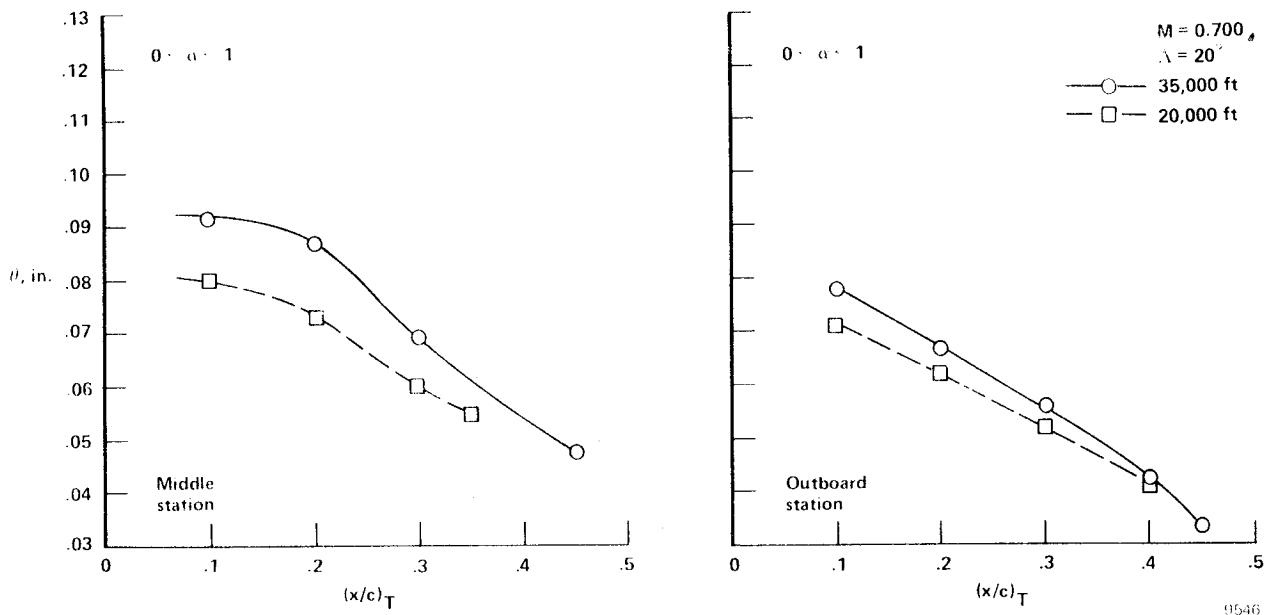


Figure 19. Momentum thickness as a function of transition location for  $M = 0.700$ ,  $\Lambda = 20^\circ$ , and  $h_p = 20,000$  and  $35,000$  ft.

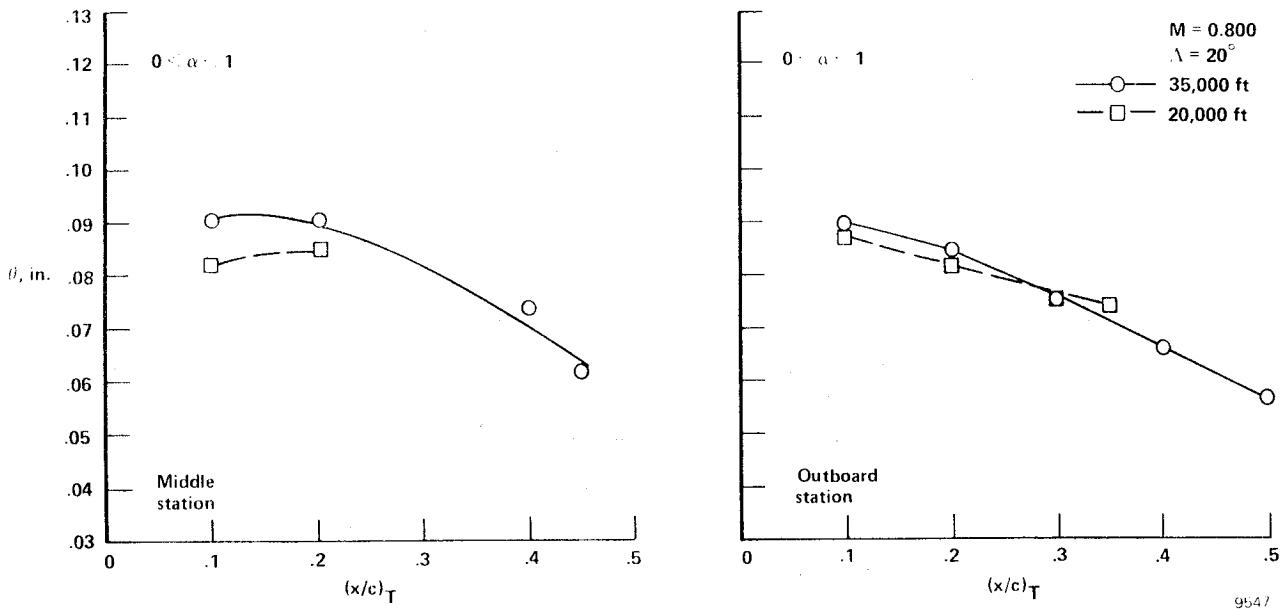


Figure 20. Momentum thickness as a function of  $(x/c)_T$ ,  $M = 0.800$ , and  $\Lambda = 20^\circ$ .

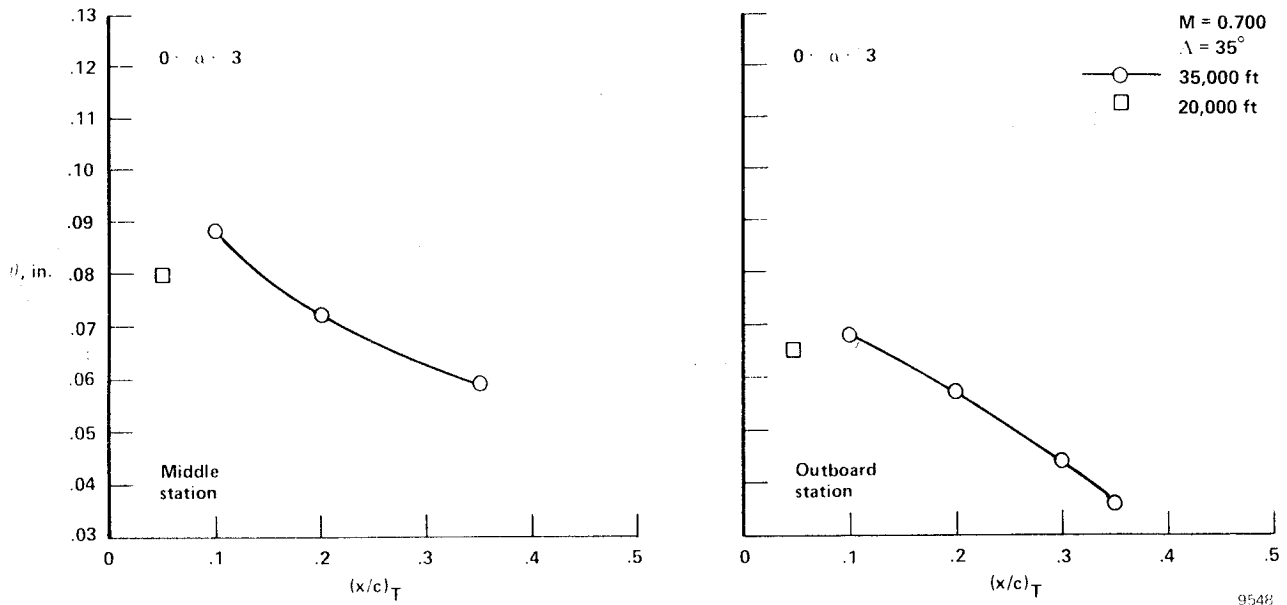


Figure 21. Momentum thickness as a function of  $(x/c)_T$ ,  $M = 0.700$ , and  $\Lambda = 35^\circ$ .

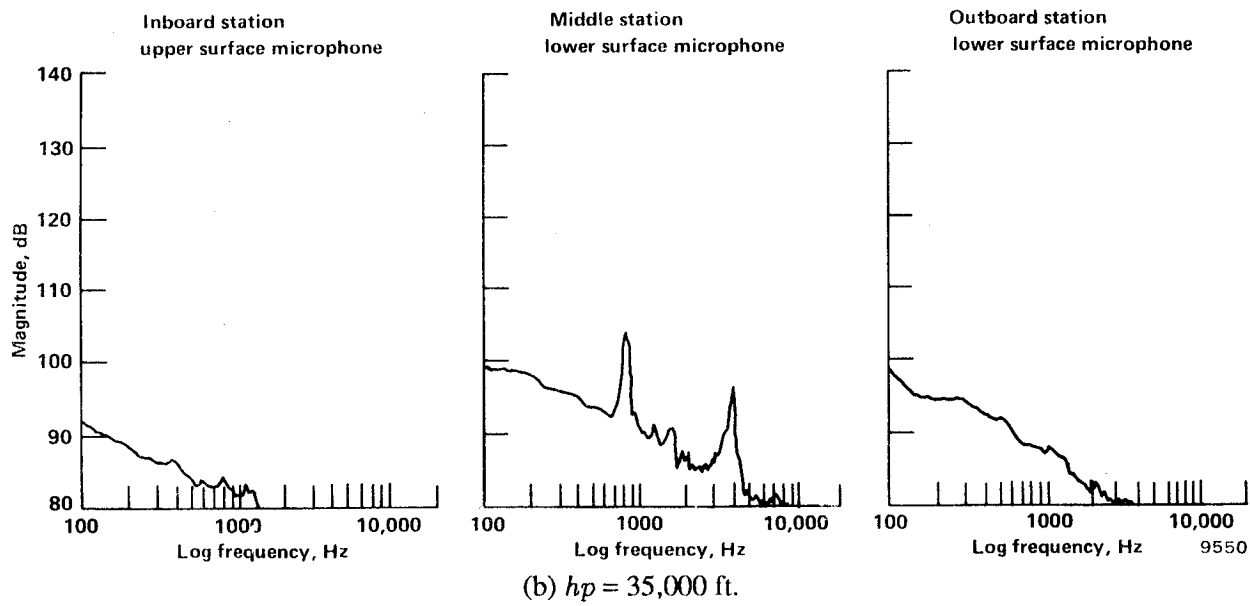
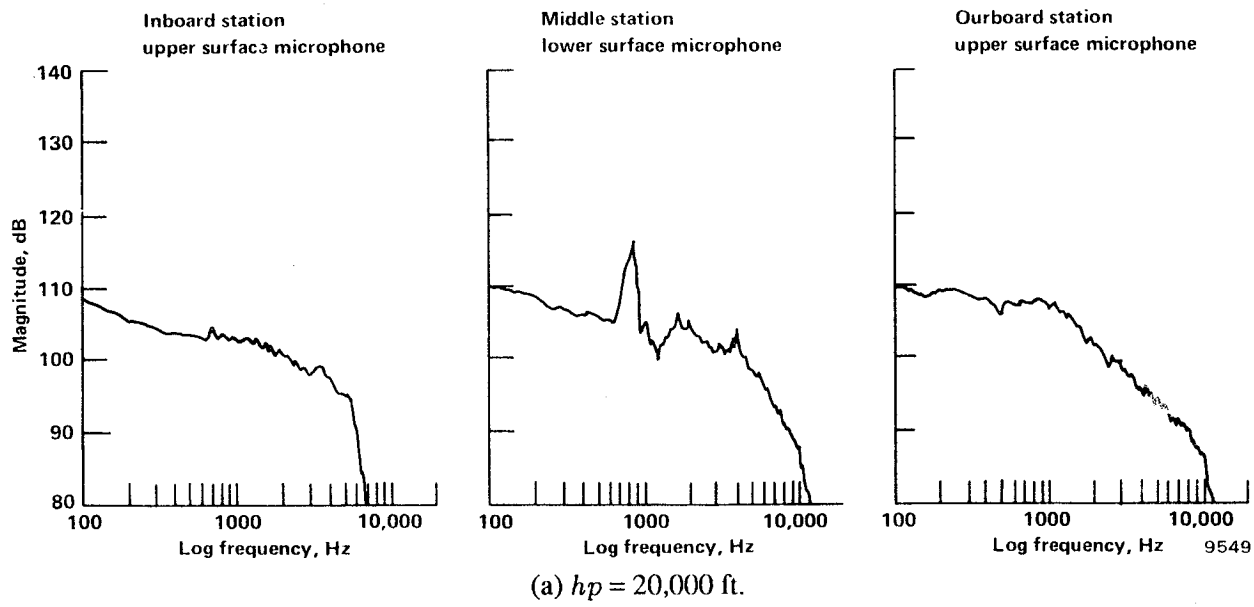
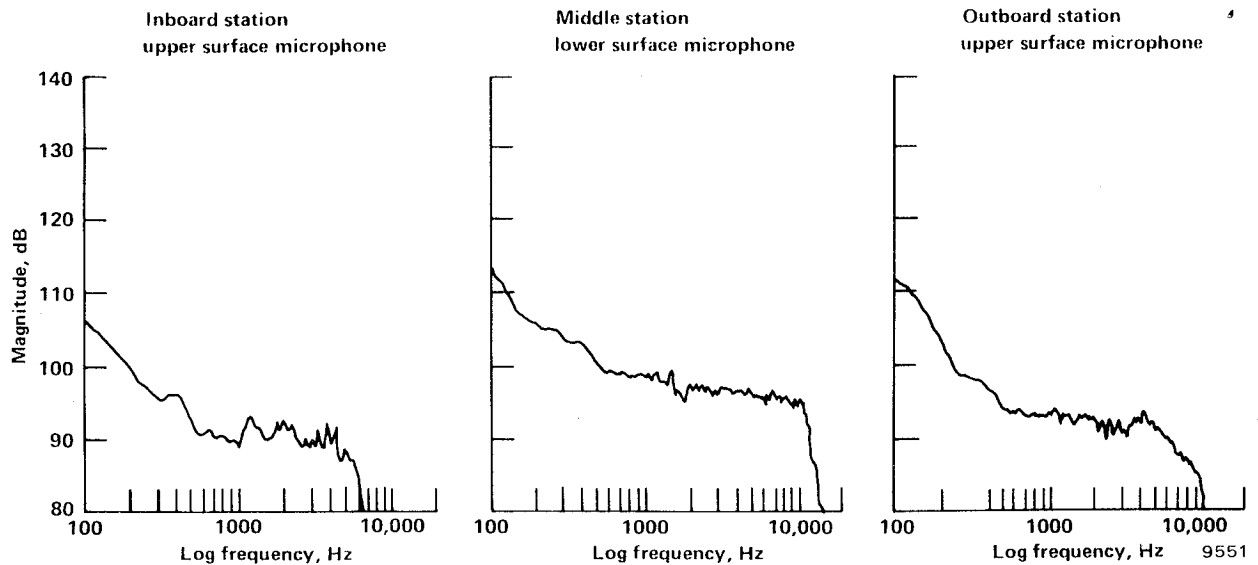
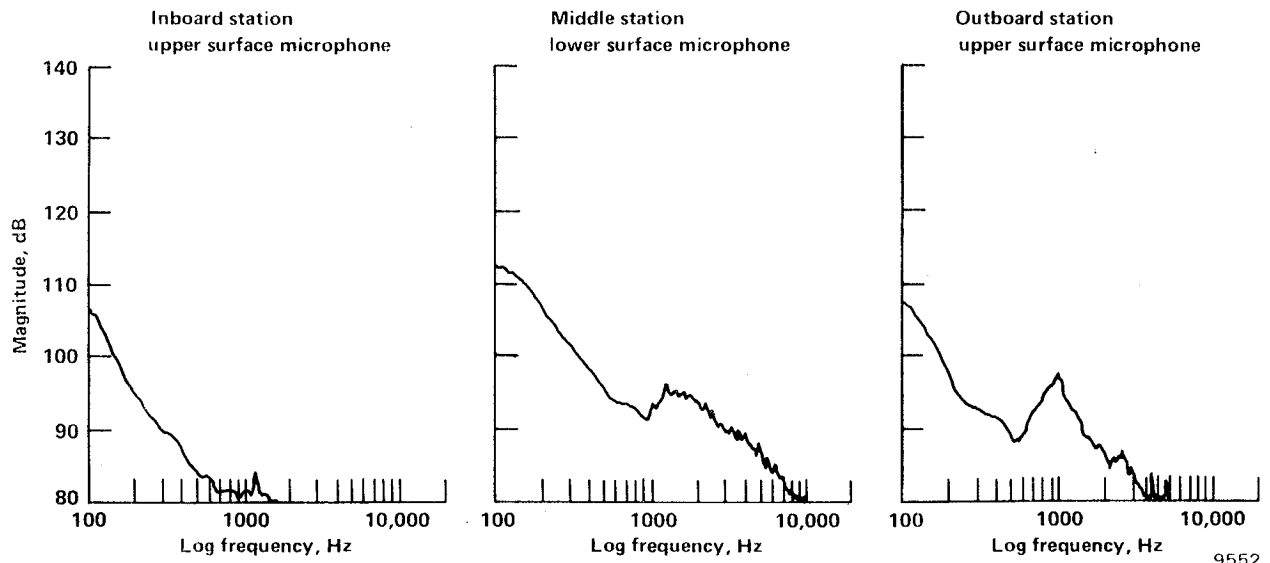


Figure 22. Microphone data for  $M = 0.700$  and  $\Lambda = 20^\circ$ .



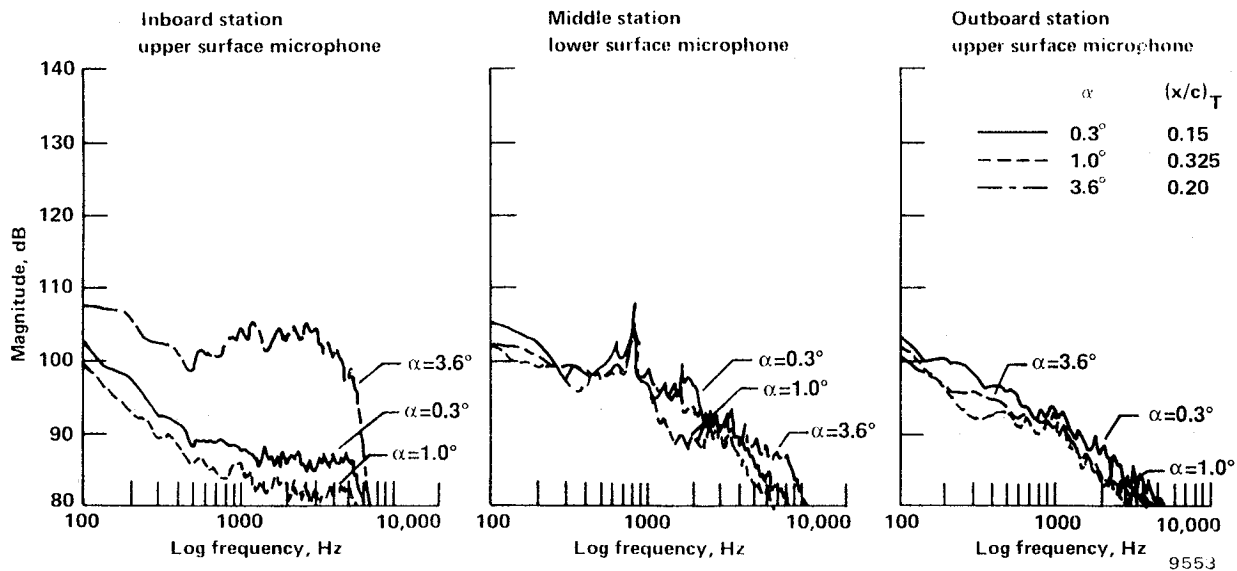


(a)  $h_p = 20,000$  ft.

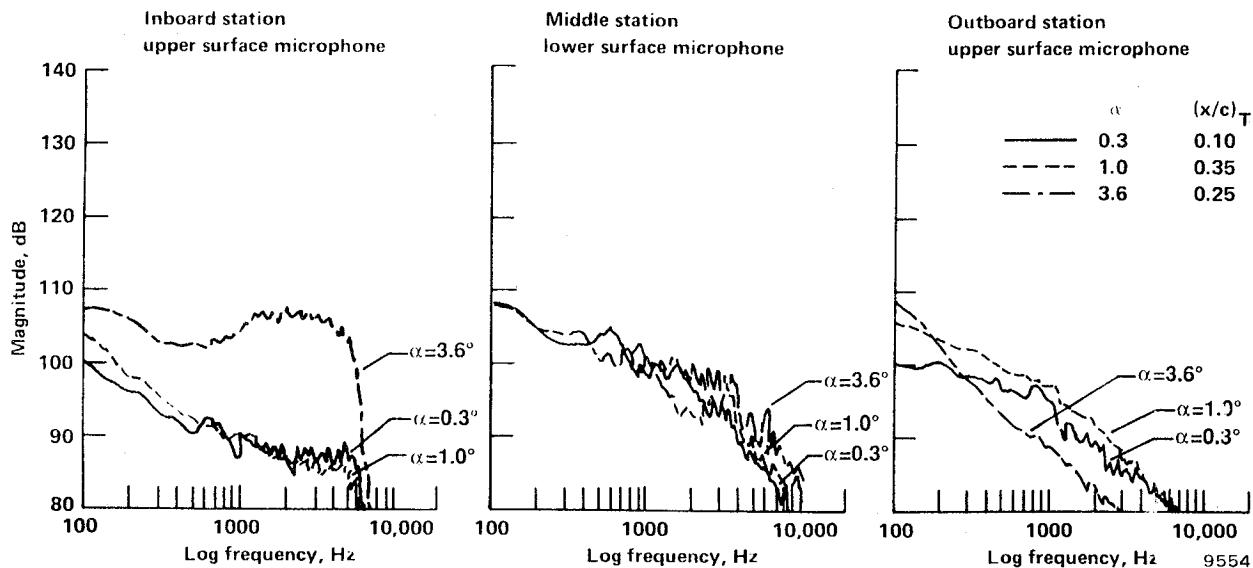


(b)  $h_p = 35,000$  ft.

Figure 23. Microphone data for  $M = 0.800$  and  $\Lambda = 20^\circ$ .



(a) Normal throttle setting.



(b) Left engine throttled back.

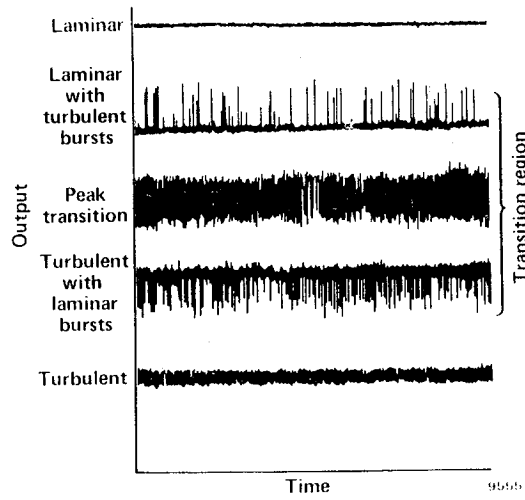
Figure 24. Microphone data for leading-edge noise study;  $M = 0.750$ ,  $\Lambda = 30^\circ$ , and  $h_p = 35,000$  ft.

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BLACK AND WHITE PHOTOGRAPH

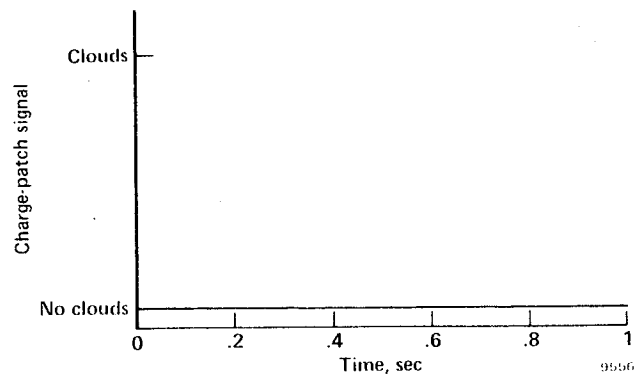


EC 86-33533-001

Figure 25. Typical cirrus clouds.

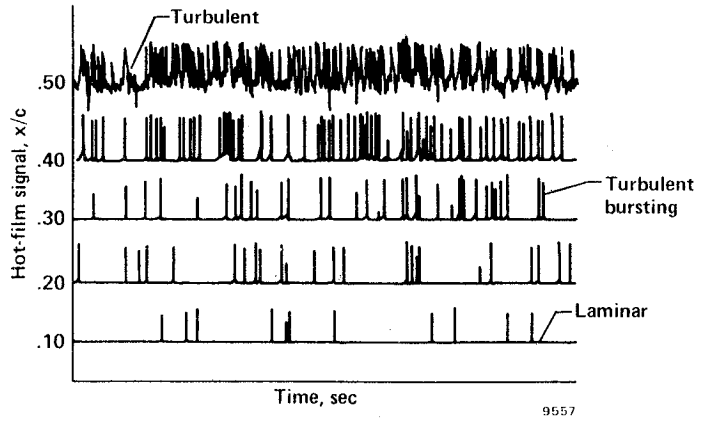


(a) Typical hot-film signals.

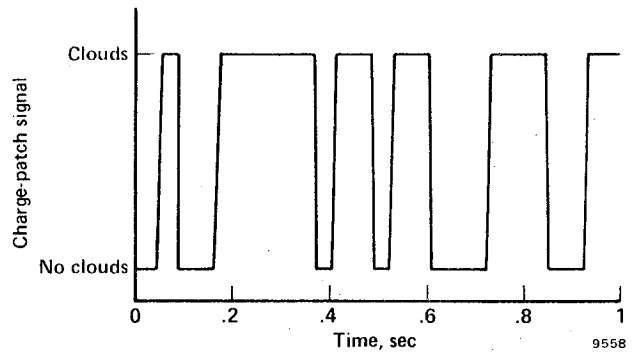


(b) Charge-patch signal.

Figure 26. Hot-film and charge-patch signals without cloud encounters.

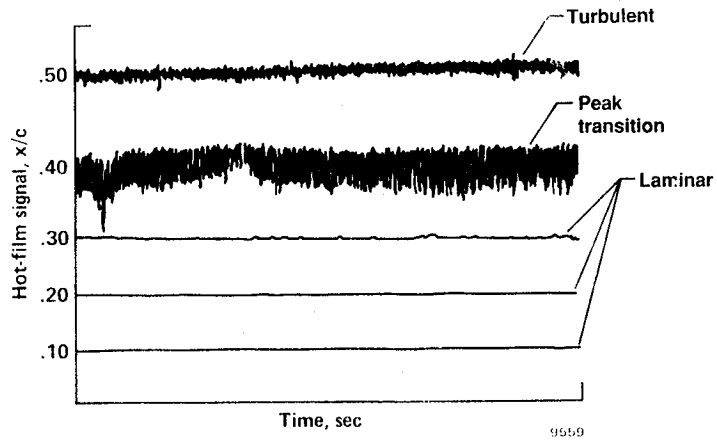


(a) Hot-film signals.

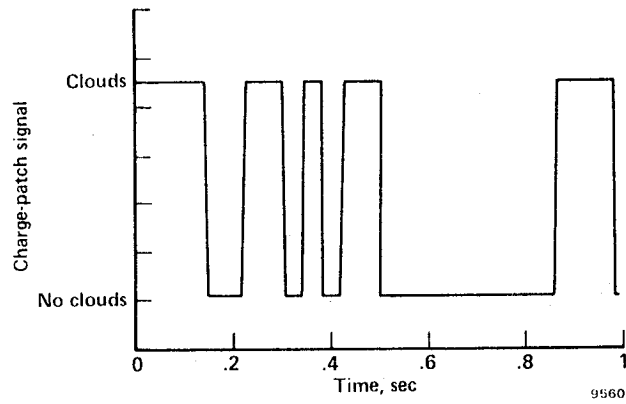


(b) Charge-patch signal.

Figure 27. Hot-film and charge-patch signals with cloud encounters.



(a) Hot-film signals.



(b) Charge-patch signal.

Figure 28. Hot-film and charge-patch signals with cloud encounters.



# Report Documentation Page

|  |  |   |  |  |                         |
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|  |  |   |  | 15. Supplementary Notes<br><br><b>This report includes a microfiche supplement attached inside the back cover.</b> |                         |
| 16. Abstract<br><p>This report discusses the results of the variable-sweep transition flight experiment (VSTFE). The VSTFE was a natural laminar flow experiment flown on the swing-wing F-14A aircraft. The main objective of the VSTFE was to determine the effects of wing sweep on boundary-layer transition at conditions representative of transport aircraft. The experiment included the flight-testing of two laminar-flow wing gloves. Glove 1 was a cleanup of the existing F-14A wing. Glove 2, not discussed in this report, was designed to provide favorable pressure distributions for natural laminar flow at Mach number (<math>M</math>) 0.700.</p> <p>The transition locations presented for glove 1 were determined primarily by using hot-film sensors. Boundary-layer rake data was provided as a supplement. Transition data were obtained for leading-edge wing sweeps of 15°, 20°, 25°, 30°, and 35°, with Mach numbers ranging from 0.700 to 0.825, and altitudes ranging from 10,000 to 35,000 ft. Results show that a substantial amount of laminar flow was maintained at all the wing sweeps evaluated. The maximum transition Reynolds number of <math>13.7 \times 10^6</math> was obtained for the condition of 15° of sweep, <math>M = 0.800</math>, and an altitude of 20,000 ft.</p> |  |   |  |  |                         |
| 17. Key Words (Suggested by Author(s))<br><b>Boundary-layer transition<br/>Laminar flow<br/>Natural laminar flow</b>   |  |   | 18. Distribution Statement<br><br><b>Subject category 34</b> |  |                         |
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Microfiche supplement for TM-101712

**Effects of Wing Sweep on Boundary-Layer Transition  
for a Smooth F-14A Wing at Mach Numbers From  
0.700 to 0.825**

**Bianca Trujillo Anderson  
and  
Robert R. Meyer, Jr.**

**Table 5. Glove section pressure coefficients.  
m-1 through m-1114**

**Table 6. Boundary-layer velocity profile data.  
m-1115 through m-2260**

**Table 7. Boundary-layer transition locations.  
m-2261 through m-2288**



Table 5 Glove Section Pressure Coefficients

Fight 12 Test point 1

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 4.8

Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 171.1 Rnpu = 16R1000.

| Upper surface               |                |                          |                |                            |                |
|-----------------------------|----------------|--------------------------|----------------|----------------------------|----------------|
| BL 200.8<br>Inboard station |                | BL 260<br>Middle station |                | BL 320<br>Outboard station |                |
| x/c                         | C <sub>p</sub> | x/c                      | C <sub>p</sub> | x/c                        | C <sub>p</sub> |
| 0.000                       | 0.3843         | 0.000                    | 0.3560         | 0.000                      | 0.4084         |
| 0.005                       | -1.0407        | 0.005                    | -1.0457        | 0.005                      | -0.6786        |
| 0.010                       | -1.2719        | 0.010                    | -1.3326        | 0.010                      | -1.0501        |
| 0.020                       | -1.4716        | 0.020                    | -1.4998        | 0.020                      | -1.4107        |
| 0.040                       | -1.5311        | 0.040                    | -1.5647        | 0.040                      | -1.5268        |
| 0.060                       | -1.5149        | 0.060                    | -1.5396        | 0.060                      | -1.4426        |
| 0.080                       | -1.4298        | 0.080                    | -1.4823        | 0.080                      | -1.2751        |
| 0.100                       | -0.9407        | 0.100                    | -1.0213        | 0.100                      | -0.8248        |
| 0.125                       | -0.7834        | 0.125                    | -0.8550        | 0.125                      | -0.8238        |
| 0.150                       | -0.8960        | 0.150                    | -0.8712        | 0.150                      | -0.8135        |
| 0.175                       | -0.8418        | 0.175                    | -0.8741        | 0.175                      | -0.8080        |
| 0.200                       | -0.8505        | 0.200                    | -0.8688        | 0.200                      | -0.7595        |
| 0.250                       | -0.8058        | 0.250                    | -0.8379        | 0.250                      | -0.7340        |
| 0.300                       | -0.7405        | 0.300                    | -0.7598        | 0.300                      | -0.6654        |
| 0.350                       | -0.6808        | 0.350                    | -0.6750        | 0.350                      | -0.6238        |
| 0.400                       | -0.5808        | 0.400                    | -0.6408        | 0.400                      | -0.5660        |
| 0.450                       | -0.5054        | 0.450                    | -0.5548        | 0.450                      | -0.5198        |
| 0.500                       | -0.4816        | 0.500                    | -0.5180        | 0.500                      | -0.4626        |
| 0.550                       | -0.3893        | 0.550                    | -0.4744        | 0.550                      | -0.4342        |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.6795 | 0.005 | 0.7441 | 0.005 | 0.7273 |
| 0.010         | 0.5928 | 0.010 | 0.6238 | 0.010 | 0.6026 |

Flight 12 Test point 2

Sweep, deg = 34.5 Mach = 0.70 hp, ft = 34300. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 177.2 Rnpu = 1727000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7177  | 0.000                    | 0.7561  | 0.000                      | 0.7627  |
| 0.005                       | 0.0443  | 0.005                    | 0.0538  | 0.005                      | 0.3022  |
| 0.010                       | -0.1706 | 0.010                    | -0.1278 | 0.010                      | 0.0611  |
| 0.020                       | -0.3475 | 0.020                    | -0.3220 | 0.020                      | -0.1983 |
| 0.040                       | -0.4646 | 0.040                    | -0.4234 | 0.040                      | -0.3222 |
| 0.060                       | -0.4809 | 0.060                    | -0.4391 | 0.060                      | -0.3654 |
| 0.080                       | -0.4858 | 0.080                    | -0.4588 | 0.080                      | -0.3803 |
| 0.100                       | -0.4853 | 0.100                    | -0.4518 | 0.100                      | -0.3845 |
| 0.125                       | -0.4482 | 0.125                    | -0.4491 | 0.125                      | -0.3798 |
| 0.150                       | -0.5097 | 0.150                    | -0.4744 | 0.150                      | -0.4029 |
| 0.175                       | -0.4993 | 0.175                    | -0.4873 | 0.175                      | -0.4190 |
| 0.200                       | -0.5320 | 0.200                    | -0.4940 | 0.200                      | -0.4098 |
| 0.250                       | -0.5370 | 0.250                    | -0.5284 | 0.250                      | -0.4405 |
| 0.300                       | -0.5064 | 0.300                    | -0.5086 | 0.300                      | -0.4226 |
| 0.350                       | -0.4847 | 0.350                    | -0.4815 | 0.350                      | -0.4368 |
| 0.400                       | -0.4387 | 0.400                    | -0.4844 | 0.400                      | -0.4187 |
| 0.450                       | -0.3922 | 0.450                    | -0.4345 | 0.450                      | -0.4039 |
| 0.500                       | -0.3850 | 0.500                    | -0.4245 | 0.500                      | -0.3800 |
| 0.550                       | -0.3345 | 0.550                    | -0.4190 | 0.550                      | -0.3776 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.2713 | 0.005 | 0.3127 | 0.005 | 0.2553  |
| 0.010 | 0.0630 | 0.010 | 0.0542 | 0.010 | -0.0483 |

Flight 12 Test point 3

Sweep, deg = 34.5 Mach = 0.70 hp, ft = 35300. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 167.9 Rrho = 1657000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.6898  | 0.000                    | 0.7112  | 0.000                      | 0.7396  |
| 0.005                       | -0.1813 | 0.005                    | -0.1731 | 0.005                      | 0.1178  |
| 0.010                       | -0.3925 | 0.010                    | -0.3652 | 0.010                      | -0.1567 |
| 0.020                       | -0.5475 | 0.020                    | -0.5393 | 0.020                      | -0.4209 |
| 0.040                       | -0.6369 | 0.040                    | -0.6000 | 0.040                      | -0.5024 |
| 0.060                       | -0.6236 | 0.060                    | -0.6006 | 0.060                      | -0.5181 |
| 0.080                       | -0.6165 | 0.080                    | -0.5975 | 0.080                      | -0.5106 |
| 0.100                       | -0.5928 | 0.100                    | -0.5705 | 0.100                      | -0.4935 |
| 0.125                       | -0.5243 | 0.125                    | -0.5532 | 0.125                      | -0.4783 |
| 0.150                       | -0.5912 | 0.150                    | -0.5733 | 0.150                      | -0.4914 |
| 0.175                       | -0.5688 | 0.175                    | -0.5778 | 0.175                      | -0.5048 |
| 0.200                       | -0.5999 | 0.200                    | -0.5760 | 0.200                      | -0.4811 |
| 0.250                       | -0.5907 | 0.250                    | -0.5986 | 0.250                      | -0.5072 |
| 0.300                       | -0.5587 | 0.300                    | -0.5705 | 0.300                      | -0.4809 |
| 0.350                       | -0.5213 | 0.350                    | -0.5228 | 0.350                      | -0.4774 |
| 0.400                       | -0.4705 | 0.400                    | -0.5214 | 0.400                      | -0.4493 |
| 0.450                       | -0.4156 | 0.450                    | -0.4573 | 0.450                      | -0.4292 |
| 0.500                       | -0.4127 | 0.500                    | -0.4464 | 0.500                      | -0.3971 |
| 0.550                       | -0.3517 | 0.550                    | -0.4376 | 0.550                      | -0.3967 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4231 | 0.005 | 0.4703 | 0.005 | 0.4250 |
| 0.010 | 0.2383 | 0.010 | 0.2347 | 0.010 | 0.1658 |

Flight 12 Test point 4

Sweep, deg = 30.4 Mach = 0.71 hp, ft = 35000. Angle of attack, deg = 4.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 174.0 Rnpu = 1695000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.5636  | 0.000                    | 0.5658  | 0.000                      | 0.6163  |
| 0.005                       | -0.7793 | 0.005                    | -0.7922 | 0.005                      | -0.4117 |
| 0.010                       | -1.0371 | 0.010                    | -1.0738 | 0.010                      | -0.7719 |
| 0.020                       | -1.2401 | 0.020                    | -1.2386 | 0.020                      | -1.1701 |
| 0.040                       | -1.3683 | 0.040                    | -1.3826 | 0.040                      | -1.2123 |
| 0.060                       | -1.3732 | 0.060                    | -1.3472 | 0.060                      | -1.1915 |
| 0.080                       | -1.3263 | 0.080                    | -1.2550 | 0.080                      | -1.1073 |
| 0.100                       | -1.2266 | 0.100                    | -1.1111 | 0.100                      | -0.9090 |
| 0.125                       | -0.7409 | 0.125                    | -0.9505 | 0.125                      | -0.8370 |
| 0.150                       | -0.9262 | 0.150                    | -0.8837 | 0.150                      | -0.8145 |
| 0.175                       | -0.8540 | 0.175                    | -0.9020 | 0.175                      | -0.8248 |
| 0.200                       | -0.9172 | 0.200                    | -0.8845 | 0.200                      | -0.7744 |
| 0.250                       | -0.8435 | 0.250                    | -0.8845 | 0.250                      | -0.7584 |
| 0.300                       | -0.7834 | 0.300                    | -0.8057 | 0.300                      | -0.6957 |
| 0.350                       | -0.7014 | 0.350                    | -0.7166 | 0.350                      | -0.6635 |
| 0.400                       | -0.6161 | 0.400                    | -0.6815 | 0.400                      | -0.5982 |
| 0.450                       | -0.5340 | 0.450                    | -0.5926 | 0.450                      | -0.5510 |
| 0.500                       | -0.5054 | 0.500                    | -0.5599 | 0.500                      | -0.4896 |
| 0.550                       | -0.4193 | 0.550                    | -0.5174 | 0.550                      | -0.4538 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.7059 | 0.005 | 0.7566 | 0.005 | 0.7429 |
| 0.010 | 0.5715 | 0.010 | 0.5873 | 0.010 | 0.5644 |

Fight 12 Test point 5

Sweep, deg = 30.4 Mach = 0.70 hp, ft = 35500. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 168.0 Rnpu = 1648000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7912  | 0.000                    | 0.8272  | 0.000                      | 0.8370  |
| 0.005                       | 0.0227  | 0.005                    | 0.0390  | 0.005                      | 0.3176  |
| 0.010                       | -0.2133 | 0.010                    | -0.1660 | 0.010                      | 0.0417  |
| 0.020                       | -0.4109 | 0.020                    | -0.3803 | 0.020                      | -0.2441 |
| 0.040                       | -0.5353 | 0.040                    | -0.4990 | 0.040                      | -0.3768 |
| 0.060                       | -0.5658 | 0.060                    | -0.5201 | 0.060                      | -0.4278 |
| 0.080                       | -0.5630 | 0.080                    | -0.5250 | 0.080                      | -0.4396 |
| 0.100                       | -0.5617 | 0.100                    | -0.5290 | 0.100                      | -0.4459 |
| 0.125                       | -0.5669 | 0.125                    | -0.5195 | 0.125                      | -0.4309 |
| 0.150                       | -0.5815 | 0.150                    | -0.5446 | 0.150                      | -0.4543 |
| 0.175                       | -0.5680 | 0.175                    | -0.5664 | 0.175                      | -0.4817 |
| 0.200                       | -0.5992 | 0.200                    | -0.5705 | 0.200                      | -0.4642 |
| 0.250                       | -0.6007 | 0.250                    | -0.6096 | 0.250                      | -0.5020 |
| 0.300                       | -0.5701 | 0.300                    | -0.5896 | 0.300                      | -0.4847 |
| 0.350                       | -0.5401 | 0.350                    | -0.5402 | 0.350                      | -0.4958 |
| 0.400                       | -0.4909 | 0.400                    | -0.5418 | 0.400                      | -0.4646 |
| 0.450                       | -0.4328 | 0.450                    | -0.4871 | 0.450                      | -0.4458 |
| 0.500                       | -0.4269 | 0.500                    | -0.4738 | 0.500                      | -0.4172 |
| 0.550                       | -0.3680 | 0.550                    | -0.4552 | 0.550                      | -0.4074 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3520 | 0.005 | 0.3822 | 0.005 | 0.3257 |
| 0.010 | 0.1316 | 0.010 | 0.1024 | 0.010 | 0.0030 |

Flight 12 Test point 6

Sweep, deg = 30.4 Mach = 0.67 hp, ft = 35500. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 154.0 Rnpu = 1564000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7494  | 0.000                    | 0.7886  | 0.000                      | 0.8022  |
| 0.005                       | -0.1701 | 0.005                    | -0.1431 | 0.005                      | 0.1664  |
| 0.010                       | -0.4174 | 0.010                    | -0.3627 | 0.010                      | -0.1270 |
| 0.020                       | -0.6073 | 0.020                    | -0.5762 | 0.020                      | -0.4207 |
| 0.040                       | -0.7063 | 0.040                    | -0.6612 | 0.040                      | -0.5326 |
| 0.060                       | -0.7029 | 0.060                    | -0.6662 | 0.060                      | -0.5625 |
| 0.080                       | -0.6922 | 0.080                    | -0.6638 | 0.080                      | -0.5655 |
| 0.100                       | -0.6822 | 0.100                    | -0.6440 | 0.100                      | -0.5600 |
| 0.125                       | -0.6108 | 0.125                    | -0.6209 | 0.125                      | -0.5456 |
| 0.150                       | -0.6838 | 0.150                    | -0.6425 | 0.150                      | -0.5466 |
| 0.175                       | -0.6581 | 0.175                    | -0.6536 | 0.175                      | -0.5718 |
| 0.200                       | -0.6893 | 0.200                    | -0.6708 | 0.200                      | -0.5486 |
| 0.250                       | -0.6831 | 0.250                    | -0.6925 | 0.250                      | -0.5790 |
| 0.300                       | -0.6433 | 0.300                    | -0.6602 | 0.300                      | -0.5550 |
| 0.350                       | -0.6111 | 0.350                    | -0.5935 | 0.350                      | -0.5551 |
| 0.400                       | -0.5582 | 0.400                    | -0.6030 | 0.400                      | -0.5271 |
| 0.450                       | -0.4963 | 0.450                    | -0.5404 | 0.450                      | -0.4994 |
| 0.500                       | -0.4797 | 0.500                    | -0.5314 | 0.500                      | -0.4654 |
| 0.550                       | -0.4205 | 0.550                    | -0.5136 | 0.550                      | -0.4587 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4245 | 0.005 | 0.4564 | 0.005 | 0.4089 |
| 0.010 | 0.2086 | 0.010 | 0.1918 | 0.010 | 0.1023 |

Flight 12 Test point 7

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 35000. Angle of attack, deg = 3.8  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 172.8 Rnpu = 1687000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.6951  | 0.000                    | 0.7100  | 0.000                      | 0.7539  |
| 0.005                       | -0.6534 | 0.005                    | -0.6323 | 0.005                      | -0.2382 |
| 0.010                       | -0.9359 | 0.010                    | -0.9166 | 0.010                      | -0.6167 |
| 0.020                       | -1.1607 | 0.020                    | -1.1236 | 0.020                      | -1.0496 |
| 0.040                       | -1.3122 | 0.040                    | -1.3019 | 0.040                      | -1.0866 |
| 0.060                       | -1.3269 | 0.060                    | -1.2679 | 0.060                      | -1.1362 |
| 0.080                       | -1.3396 | 0.080                    | -1.1961 | 0.080                      | -1.1012 |
| 0.100                       | -1.2752 | 0.100                    | -1.1467 | 0.100                      | -1.0300 |
| 0.125                       | -0.9863 | 0.125                    | -1.1690 | 0.125                      | -0.7991 |
| 0.150                       | -0.8382 | 0.150                    | -0.7948 | 0.150                      | -0.8301 |
| 0.175                       | -0.8162 | 0.175                    | -0.8963 | 0.175                      | -0.8771 |
| 0.200                       | -0.9303 | 0.200                    | -0.9628 | 0.200                      | -0.7976 |
| 0.250                       | -0.9474 | 0.250 <sup>0.1</sup>     | -1.0572 | 0.250                      | -0.7985 |
| 0.300                       | -0.8373 | 0.300                    | -0.8540 | 0.300                      | -0.7378 |
| 0.350                       | -0.7430 | 0.350                    | -0.7655 | 0.350                      | -0.7078 |
| 0.400                       | -0.6494 | 0.400                    | -0.7246 | 0.400                      | -0.6410 |
| 0.450                       | -0.5635 | 0.450                    | -0.6273 | 0.450                      | -0.5878 |
| 0.500                       | -0.5252 | 0.500                    | -0.5884 | 0.500                      | -0.5235 |
| 0.550                       | -0.4368 | 0.550                    | -0.5369 | 0.550                      | -0.4786 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.7476 | 0.005 | 0.7868 | 0.005 | 0.7605 |
| 0.010 | 0.5816 | 0.010 | 0.5873 | 0.010 | 0.5346 |

Flight 12 Test point 8

Sweep, deg = 25.5 Mach = 0.70 hp, ft = 35500. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 168.2 Rnpu = 1651000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8743  | 0.000                    | 0.9119  | 0.000                      | 0.9258  |
| 0.005                       | 0.0354  | 0.005                    | 0.0686  | 0.005                      | 0.3695  |
| 0.010                       | -0.2206 | 0.010                    | -0.1662 | 0.010                      | 0.0705  |
| 0.020                       | -0.4499 | 0.020                    | -0.3994 | 0.020                      | -0.2477 |
| 0.040                       | -0.5966 | 0.040                    | -0.5334 | 0.040                      | -0.3938 |
| 0.060                       | -0.6220 | 0.060                    | -0.5664 | 0.060                      | -0.4609 |
| 0.080                       | -0.6333 | 0.080                    | -0.5798 | 0.080                      | -0.4639 |
| 0.100                       | -0.6320 | 0.100                    | -0.5813 | 0.100                      | -0.4839 |
| 0.125                       | -0.5678 | 0.125                    | -0.5710 | 0.125                      | -0.4832 |
| 0.150                       | -0.6511 | 0.150                    | -0.5997 | 0.150                      | -0.5067 |
| 0.175                       | -0.6318 | 0.175                    | -0.6279 | 0.175                      | -0.5210 |
| 0.200                       | -0.6741 | 0.200                    | -0.6410 | 0.200                      | -0.5086 |
| 0.250                       | -0.6729 | 0.250                    | -0.6818 | 0.250                      | -0.5538 |
| 0.300                       | -0.6424 | 0.300                    | -0.6517 | 0.300                      | -0.5324 |
| 0.350                       | -0.5953 | 0.350                    | -0.6046 | 0.350                      | -0.5397 |
| 0.400                       | -0.5392 | 0.400                    | -0.6029 | 0.400                      | -0.5222 |
| 0.450                       | -0.4762 | 0.450                    | -0.5315 | 0.450                      | -0.4922 |
| 0.500                       | -0.4683 | 0.500                    | -0.5212 | 0.500                      | -0.4520 |
| 0.550                       | -0.3971 | 0.550                    | -0.5029 | 0.550                      | -0.4396 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4111 | 0.005 | 0.4337 | 0.005 | 0.3579 |
| 0.010 | 0.1692 | 0.010 | 0.1309 | 0.010 | 0.0150 |



Fight 12 Test point 9

Sweep, deg = 25.5 Mach = 0.70 hp, ft = 35400. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.1 QBAR, IL, ft = 165.2 Rnpu = 1636000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8550  | 0.000                    | 0.8831  | 0.000                      | 0.9014  |
| 0.005                       | -0.1126 | 0.005                    | -0.0753 | 0.005                      | 0.2455  |
| 0.010                       | -0.3697 | 0.010                    | -0.3158 | 0.010                      | -0.0669 |
| 0.020                       | -0.5888 | 0.020                    | -0.5449 | 0.020                      | -0.3899 |
| 0.040                       | -0.7200 | 0.040                    | -0.6490 | 0.040                      | -0.5162 |
| 0.060                       | -0.7236 | 0.060                    | -0.6652 | 0.060                      | -0.5581 |
| 0.080                       | -0.7050 | 0.080                    | -0.6791 | 0.080                      | -0.5549 |
| 0.100                       | -0.7060 | 0.100                    | -0.6545 | 0.100                      | -0.5554 |
| 0.125                       | -0.6199 | 0.125                    | -0.6442 | 0.125                      | -0.5469 |
| 0.150                       | -0.7062 | 0.150                    | -0.6646 | 0.150                      | -0.5643 |
| 0.175                       | -0.6768 | 0.175                    | -0.6895 | 0.175                      | -0.5755 |
| 0.200                       | -0.7211 | 0.200                    | -0.6924 | 0.200                      | -0.5598 |
| 0.250                       | -0.7111 | 0.250                    | -0.7239 | 0.250                      | -0.5930 |
| 0.300                       | -0.6742 | 0.300                    | -0.6903 | 0.300                      | -0.5613 |
| 0.350                       | -0.6177 | 0.350                    | -0.6298 | 0.350                      | -0.5690 |
| 0.400                       | -0.5570 | 0.400                    | -0.6157 | 0.400                      | -0.5321 |
| 0.450                       | -0.4905 | 0.450                    | -0.5455 | 0.450                      | -0.5030 |
| 0.500                       | -0.4762 | 0.500                    | -0.5336 | 0.500                      | -0.4625 |
| 0.550                       | -0.4057 | 0.550                    | -0.5085 | 0.550                      | -0.4418 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5024 | 0.005 | 0.5305 | 0.005 | 0.4665 |
| 0.010 | 0.2797 | 0.010 | 0.2463 | 0.010 | 0.1437 |

Fight 12 Test point 10

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 35000. Angle of attack, deg = 3.3  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 172.1 Rnpu = 1685000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8420  | 0.000                    | 0.8644  | 0.000                      | 0.9072  |
| 0.005                       | -0.4557 | 0.005                    | -0.4175 | 0.005                      | -0.0135 |
| 0.010                       | -0.7505 | 0.010                    | -0.7058 | 0.010                      | -0.4002 |
| 0.020                       | -0.9988 | 0.020                    | -0.9441 | 0.020                      | -0.8153 |
| 0.040                       | -1.1777 | 0.040                    | -1.1281 | 0.040                      | -0.9168 |
| 0.060                       | -1.2270 | 0.060                    | -1.0990 | 0.060                      | -1.0021 |
| 0.080                       | -1.2294 | 0.080                    | -0.9924 | 0.080                      | -0.9232 |
| 0.100                       | -1.1774 | 0.100                    | -1.1121 | 0.100                      | -0.8778 |
| 0.125                       | -0.9489 | 0.125                    | -1.1253 | 0.125                      | -0.8281 |
| 0.150                       | -1.0870 | 0.150                    | -0.9707 | 0.150                      | -0.8268 |
| 0.175                       | -1.0142 | 0.175                    | -0.8769 | 0.175                      | -0.8390 |
| 0.200                       | -0.8670 | 0.200                    | -0.9744 | 0.200                      | -0.8227 |
| 0.250                       | -0.9660 | 0.250                    | -1.0411 | 0.250                      | -0.8040 |
| 0.300                       | -0.8658 | 0.300                    | -0.9866 | 0.300                      | -0.7542 |
| 0.350                       | -0.7621 | 0.350                    | -0.7863 | 0.350                      | -0.7398 |
| 0.400                       | -0.6681 | 0.400                    | -0.7600 | 0.400                      | -0.6782 |
| 0.450                       | -0.5785 | 0.450                    | -0.6579 | 0.450                      | -0.6224 |
| 0.500                       | -0.5453 | 0.500                    | -0.6096 | 0.500                      | -0.5541 |
| 0.550                       | -0.4478 | 0.550                    | -0.5703 | 0.550                      | -0.5011 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.7532 | 0.005 | 0.7827 | 0.005 | 0.7409 |
| 0.010 | 0.5579 | 0.010 | 0.5330 | 0.010 | 0.4571 |

Flight 12 Test point 11

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 34700. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 173.6 Rnpu = 1700000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9991  | 0.000                    | 0.9999  | 0.000                      | 1.0095  |
| 0.005                       | 0.1197  | 0.005                    | 0.1756  | 0.005                      | 0.4722  |
| 0.010                       | -0.1535 | 0.010                    | -0.0821 | 0.010                      | 0.1768  |
| 0.020                       | -0.4060 | 0.020                    | -0.3481 | 0.020                      | -0.1726 |
| 0.040                       | -0.5869 | 0.040                    | -0.5010 | 0.040                      | -0.3480 |
| 0.060                       | -0.6268 | 0.060                    | -0.5449 | 0.060                      | -0.4274 |
| 0.080                       | -0.6492 | 0.080                    | -0.5790 | 0.080                      | -0.4530 |
| 0.100                       | -0.6489 | 0.100                    | -0.5855 | 0.100                      | -0.4697 |
| 0.125                       | -0.5941 | 0.125                    | -0.5895 | 0.125                      | -0.4746 |
| 0.150                       | -0.6906 | 0.150                    | -0.6248 | 0.150                      | -0.5080 |
| 0.175                       | -0.6712 | 0.175                    | -0.6532 | 0.175                      | -0.5268 |
| 0.200                       | -0.7233 | 0.200                    | -0.6733 | 0.200                      | -0.5406 |
| 0.250                       | -0.7204 | 0.250                    | -0.7150 | 0.250                      | -0.5783 |
| 0.300                       | -0.6885 | 0.300                    | -0.6997 | 0.300                      | -0.5673 |
| 0.350                       | -0.6443 | 0.350                    | -0.6493 | 0.350                      | -0.5788 |
| 0.400                       | -0.5722 | 0.400                    | -0.6467 | 0.400                      | -0.5489 |
| 0.450                       | -0.5042 | 0.450                    | -0.5573 | 0.450                      | -0.5225 |
| 0.500                       | -0.4893 | 0.500                    | -0.5517 | 0.500                      | -0.4754 |
| 0.550                       | -0.4177 | 0.550                    | -0.5215 | 0.550                      | -0.4569 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4205 | 0.005 | 0.4245 | 0.005 | 0.3434  |
| 0.010 | 0.1642 | 0.010 | 0.0991 | 0.010 | -0.0479 |

Flight 12 Test point 12

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 35400. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 166.1 Rrho = 1657000.

Upper surface

| BL 200.c<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9451  | 0.000                    | 0.9829  | 0.000                      | 0.9931  |
| 0.005                       | -0.0208 | 0.005                    | 0.0343  | 0.005                      | 0.3614  |
| 0.010                       | -0.3018 | 0.010                    | -0.2312 | 0.010                      | 0.0385  |
| 0.020                       | -0.5527 | 0.020                    | -0.4939 | 0.020                      | -0.3148 |
| 0.040                       | -0.7194 | 0.040                    | -0.6234 | 0.040                      | -0.4688 |
| 0.060                       | -0.7413 | 0.060                    | -0.6537 | 0.060                      | -0.5335 |
| 0.080                       | -0.7432 | 0.080                    | -0.6839 | 0.080                      | -0.5489 |
| 0.100                       | -0.7470 | 0.100                    | -0.6833 | 0.100                      | -0.5599 |
| 0.125                       | -0.6656 | 0.125                    | -0.6628 | 0.125                      | -0.5540 |
| 0.150                       | -0.7659 | 0.150                    | -0.7019 | 0.150                      | -0.5793 |
| 0.175                       | -0.7374 | 0.175                    | -0.7342 | 0.175                      | -0.5943 |
| 0.200                       | -0.7885 | 0.200                    | -0.7402 | 0.200                      | -0.5948 |
| 0.250                       | -0.7742 | 0.250                    | -0.7811 | 0.250                      | -0.6404 |
| 0.300                       | -0.7387 | 0.300                    | -0.7524 | 0.300                      | -0.6137 |
| 0.350                       | -0.6696 | 0.350                    | -0.6901 | 0.350                      | -0.6229 |
| 0.400                       | -0.5977 | 0.400                    | -0.6687 | 0.400                      | -0.5836 |
| 0.450                       | -0.5291 | 0.450                    | -0.5875 | 0.450                      | -0.5441 |
| 0.500                       | -0.5063 | 0.500                    | -0.5678 | 0.500                      | -0.4967 |
| 0.550                       | -0.4208 | 0.550                    | -0.5376 | 0.550                      | -0.4675 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5212 | 0.005 | 0.5343 | 0.005 | 0.4590 |
| 0.010 | 0.2824 | 0.010 | 0.2228 | 0.010 | 0.1034 |

Flight 12 Test point 13

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 34900. Angle of attack, deg = 2.4  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 196.8 Rnpu = 1819000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9276  | 0.000                    | 0.9577  | 0.000                      | 0.9765  |
| 0.005                       | -0.1315 | 0.005                    | -0.0952 | 0.005                      | 0.2230  |
| 0.010                       | -0.4190 | 0.010                    | -0.3630 | 0.010                      | -0.1216 |
| 0.020                       | -0.6699 | 0.020                    | -0.6236 | 0.020                      | -0.5040 |
| 0.040                       | -0.8309 | 0.040                    | -0.8205 | 0.040                      | -0.6614 |
| 0.060                       | -0.9716 | 0.060                    | -0.7652 | 0.060                      | -0.7929 |
| 0.080                       | -0.9338 | 0.080                    | -0.7878 | 0.080                      | -0.7786 |
| 0.100                       | -0.9639 | 0.100                    | -0.9436 | 0.100                      | -0.7954 |
| 0.125                       | -0.7968 | 0.125                    | -0.9745 | 0.125                      | -0.7415 |
| 0.150                       | -0.9639 | 0.150                    | -0.9342 | 0.150                      | -0.7520 |
| 0.175                       | -0.9267 | 0.175                    | -0.9075 | 0.175                      | -0.7934 |
| 0.200                       | -1.0100 | 0.200                    | -0.9221 | 0.200                      | -0.7945 |
| 0.250                       | -1.0906 | 0.250                    | -1.0217 | 0.250                      | -0.8966 |
| 0.300                       | -1.1649 | 0.300                    | -1.0660 | 0.300                      | -0.9225 |
| 0.350                       | -1.1257 | 0.350                    | -1.1005 | 0.350                      | -0.9794 |
| 0.400                       | -0.7107 | 0.400                    | -1.1571 | 0.400                      | -0.9606 |
| 0.450                       | -0.4966 | 0.450                    | -1.1058 | 0.450                      | -0.6472 |
| 0.500                       | -0.4814 | 0.500                    | -0.4270 | 0.500                      | -0.4831 |
| 0.550                       | -0.4240 | 0.550                    | -0.4718 | 0.550                      | -0.4701 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.6490 | 0.005 | 0.6618 | 0.005 | 0.6165 |
| 0.010 | 0.4213 | 0.010 | 0.3896 | 0.010 | 0.3003 |

Flight 12 Test point 14

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 34300. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 205.1 Rrho = 1875000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9799  | 0.000                    | 1.0144  | 0.000                      | 1.0159  |
| 0.005                       | 0.2647  | 0.005                    | 0.3144  | 0.005                      | 0.5639  |
| 0.010                       | -0.0095 | 0.010                    | 0.0626  | 0.010                      | 0.2738  |
| 0.020                       | -0.2706 | 0.020                    | -0.2126 | 0.020                      | -0.0652 |
| 0.040                       | -0.4783 | 0.040                    | -0.3946 | 0.040                      | -0.2693 |
| 0.060                       | -0.5479 | 0.060                    | -0.4618 | 0.060                      | -0.3734 |
| 0.080                       | -0.5822 | 0.080                    | -0.5396 | 0.080                      | -0.4125 |
| 0.100                       | -0.6311 | 0.100                    | -0.5439 | 0.100                      | -0.4399 |
| 0.125                       | -0.5746 | 0.125                    | -0.5473 | 0.125                      | -0.4635 |
| 0.150                       | -0.6714 | 0.150                    | -0.5971 | 0.150                      | -0.5106 |
| 0.175                       | -0.7041 | 0.175                    | -0.6803 | 0.175                      | -0.5478 |
| 0.200                       | -0.7651 | 0.200                    | -0.6800 | 0.200                      | -0.5697 |
| 0.250                       | -0.8401 | 0.250                    | -0.8123 | 0.250                      | -0.6396 |
| 0.300                       | -0.8114 | 0.300                    | -0.8520 | 0.300                      | -0.6588 |
| 0.350                       | -0.7355 | 0.350                    | -0.8536 | 0.350                      | -0.6941 |
| 0.400                       | -0.6314 | 0.400                    | -0.7049 | 0.400                      | -0.6072 |
| 0.450                       | -0.5342 | 0.450                    | -0.5640 | 0.450                      | -0.5739 |
| 0.500                       | -0.5015 | 0.500                    | -0.5692 | 0.500                      | -0.5099 |
| 0.550                       | -0.4290 | 0.550                    | -0.5478 | 0.550                      | -0.4624 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3483 | 0.005 | 0.3470 | 0.005 | 0.2806  |
| 0.010 | 0.0793 | 0.010 | 0.0052 | 0.010 | -0.1208 |

Flight 12 Test point 15

Sweep, deg = 20.0 Mach = 0.76 hp, ft = 35100. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 198.7 Rnpu = 1825000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9656  | 0.000                    | 1.0032  | 0.000                      | 1.0055  |
| 0.005                       | 0.0810  | 0.005                    | 0.1226  | 0.005                      | 0.4082  |
| 0.010                       | -0.1919 | 0.010                    | -0.1358 | 0.010                      | 0.0973  |
| 0.020                       | -0.4547 | 0.020                    | -0.4010 | 0.020                      | -0.2632 |
| 0.040                       | -0.7061 | 0.040                    | -0.5699 | 0.040                      | -0.4475 |
| 0.060                       | -0.7194 | 0.060                    | -0.6059 | 0.060                      | -0.5461 |
| 0.080                       | -0.7477 | 0.080                    | -0.7005 | 0.080                      | -0.5764 |
| 0.100                       | -0.7642 | 0.100                    | -0.8063 | 0.100                      | -0.5909 |
| 0.125                       | -0.7317 | 0.125                    | -0.8538 | 0.125                      | -0.5955 |
| 0.150                       | -0.8018 | 0.150                    | -0.8793 | 0.150                      | -0.6272 |
| 0.175                       | -0.7973 | 0.175                    | -0.7689 | 0.175                      | -0.6675 |
| 0.200                       | -0.8616 | 0.200                    | -0.8113 | 0.200                      | -0.7099 |
| 0.250                       | -0.9582 | 0.250                    | -0.9231 | 0.250                      | -0.7696 |
| 0.300                       | -1.0101 | 0.300                    | -0.9725 | 0.300                      | -0.7966 |
| 0.350                       | -0.9628 | 0.350                    | -0.9985 | 0.350                      | -0.8458 |
| 0.400                       | -0.6529 | 0.400                    | -1.0640 | 0.400                      | -0.8074 |
| 0.450                       | -0.5117 | 0.450                    | -0.8935 | 0.450                      | -0.4962 |
| 0.500                       | -0.4956 | 0.500                    | -0.4791 | 0.500                      | -0.5047 |
| 0.550                       | -0.4308 | 0.550                    | -0.5101 | 0.550                      | -0.4617 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5079 | 0.005 | 0.5138 | 0.005 | 0.4617 |
| 0.010 | 0.2539 | 0.010 | 0.2075 | 0.010 | 0.1016 |

Fight 12 Test point 16

Sweep, deg = 25.0 Mach = 0.76 hp, ft = 34900. Angle of attack, deg = 2.6  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 199.3 Rnpu = 1831000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8371  | 0.000                    | 0.8544  | 0.000                      | 0.8776  |
| 0.005                       | -0.2248 | 0.005                    | -0.2109 | 0.005                      | 0.1026  |
| 0.010                       | -0.4922 | 0.010                    | -0.4702 | 0.010                      | -0.2341 |
| 0.020                       | -0.7304 | 0.020                    | -0.7041 | 0.020                      | -0.6099 |
| 0.040                       | -0.8521 | 0.040                    | -0.8598 | 0.040                      | -0.7435 |
| 0.060                       | -1.0095 | 0.060                    | -0.8621 | 0.060                      | -0.8361 |
| 0.080                       | -0.9559 | 0.080                    | -0.8068 | 0.080                      | -0.8558 |
| 0.100                       | -0.9589 | 0.100                    | -0.9706 | 0.100                      | -0.8448 |
| 0.125                       | -0.8004 | 0.125                    | -0.9448 | 0.125                      | -0.7752 |
| 0.150                       | -0.9343 | 0.150                    | -0.9533 | 0.150                      | -0.7566 |
| 0.175                       | -0.8985 | 0.175                    | -0.9032 | 0.175                      | -0.7918 |
| 0.200                       | -0.9787 | 0.200                    | -0.9084 | 0.200                      | -0.7845 |
| 0.250                       | -1.0106 | 0.250                    | -0.9845 | 0.250                      | -0.8928 |
| 0.300                       | -1.0324 | 0.300                    | -1.0411 | 0.300                      | -0.8870 |
| 0.350                       | -0.8180 | 0.350                    | -1.0602 | 0.350                      | -0.9309 |
| 0.400                       | -0.6389 | 0.400                    | -1.0451 | 0.400                      | -0.5216 |
| 0.450                       | -0.5422 | 0.450                    | -0.5211 | 0.450                      | -0.5319 |
| 0.500                       | -0.5038 | 0.500                    | -0.5223 | 0.500                      | -0.5093 |
| 0.550                       | -0.4298 | 0.550                    | -0.5134 | 0.550                      | -0.4709 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.6275 | 0.005 | 0.6587 | 0.005 | 0.6236 |
| 0.010 | 0.4212 | 0.010 | 0.4094 | 0.010 | 0.3388 |



Fight 12 Test point 17

Sweep, deg = 25.3 Mach = 0.76 hp, ft = 34700. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 205.1 Rnpu = 1867000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9037  | 0.000                    | 0.9369  | 0.000                      | 0.9411  |
| 0.005                       | 0.1495  | 0.005                    | 0.1829  | 0.005                      | 0.4359  |
| 0.010                       | -0.1114 | 0.010                    | -0.0535 | 0.010                      | 0.1480  |
| 0.020                       | -0.3554 | 0.020                    | -0.3076 | 0.020                      | -0.1824 |
| 0.040                       | -0.5370 | 0.040                    | -0.4673 | 0.040                      | -0.3552 |
| 0.060                       | -0.5877 | 0.060                    | -0.5320 | 0.060                      | -0.4471 |
| 0.080                       | -0.6085 | 0.080                    | -0.6264 | 0.080                      | -0.4800 |
| 0.100                       | -0.6650 | 0.100                    | -0.5792 | 0.100                      | -0.5013 |
| 0.125                       | -0.5631 | 0.125                    | -0.5687 | 0.125                      | -0.5038 |
| 0.150                       | -0.6928 | 0.150                    | -0.6177 | 0.150                      | -0.5499 |
| 0.175                       | -0.6854 | 0.175                    | -0.6980 | 0.175                      | -0.5847 |
| 0.200                       | -0.7424 | 0.200                    | -0.7299 | 0.200                      | -0.5860 |
| 0.250                       | -0.7958 | 0.250                    | -0.8274 | 0.250                      | -0.6326 |
| 0.300                       | -0.7653 | 0.300                    | -0.8396 | 0.300                      | -0.6483 |
| 0.350                       | -0.7240 | 0.350                    | -0.8264 | 0.350                      | -0.6361 |
| 0.400                       | -0.6039 | 0.400                    | -0.6362 | 0.400                      | -0.5816 |
| 0.450                       | -0.5224 | 0.450                    | -0.5696 | 0.450                      | -0.5427 |
| 0.500                       | -0.4927 | 0.500                    | -0.5550 | 0.500                      | -0.4850 |
| 0.550                       | -0.4186 | 0.550                    | -0.5307 | 0.550                      | -0.4565 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3823 | 0.005 | 0.3982 | 0.005 | 0.3440  |
| 0.010 | 0.1335 | 0.010 | 0.0923 | 0.010 | -0.0171 |

Flight 12 Test point 18

Sweep, deg = 24.9 Mach = 0.76 hp, ft = 35000. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 199.0 Rnpu = 1829000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8858  | 0.000                    | 0.9195  | 0.000                      | 0.9291  |
| 0.005                       | 0.0000  | 0.005                    | 0.0324  | 0.005                      | 0.3136  |
| 0.010                       | -0.2818 | 0.010                    | -0.2155 | 0.010                      | 0.0053  |
| 0.020                       | -0.4995 | 0.020                    | -0.4692 | 0.020                      | -0.3393 |
| 0.040                       | -0.7433 | 0.040                    | -0.6124 | 0.040                      | -0.5035 |
| 0.060                       | -0.7419 | 0.060                    | -0.6318 | 0.060                      | -0.5113 |
| 0.080                       | -0.7182 | 0.080                    | -0.7392 | 0.080                      | -0.5999 |
| 0.100                       | -0.7321 | 0.100                    | -0.8044 | 0.100                      | -0.6079 |
| 0.125                       | -0.7330 | 0.125                    | -0.6100 | 0.125                      | -0.6091 |
| 0.150                       | -0.7553 | 0.150                    | -0.6942 | 0.150                      | -0.6359 |
| 0.175                       | -0.7751 | 0.175                    | -0.7582 | 0.175                      | -0.6819 |
| 0.200                       | -0.8496 | 0.200                    | -0.8210 | 0.200                      | -0.6943 |
| 0.250                       | -0.8932 | 0.250                    | -0.8385 | 0.250                      | -0.7351 |
| 0.300                       | -0.8230 | 0.300                    | -0.9147 | 0.300                      | -0.7207 |
| 0.350                       | -0.7854 | 0.350                    | -0.9099 | 0.350                      | -0.6441 |
| 0.400                       | -0.6288 | 0.400                    | -0.6170 | 0.400                      | -0.5966 |
| 0.450                       | -0.5308 | 0.450                    | -0.5728 | 0.450                      | -0.5579 |
| 0.500                       | -0.4990 | 0.500                    | -0.5524 | 0.500                      | -0.4973 |
| 0.550                       | -0.4250 | 0.550                    | -0.5317 | 0.550                      | -0.4575 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4945 | 0.005 | 0.5069 | 0.005 | 0.4599 |
| 0.010 | 0.2597 | 0.010 | 0.2242 | 0.010 | 0.1349 |

Flight 12 Test point 19

Sweep, deg = 30.0 Mach = 0.76 hp, ft = 34900. Angle of attack, deg = 3.1  
 Angle of sideslip, deg = -0.1  $\overline{C}_{BAR}$ , lb/ft<sup>2</sup> = 198.9 Rnpu = 1829000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7192  | 0.000                    | 0.7199  | 0.000                      | 0.7444  |
| 0.005                       | -0.3906 | 0.005                    | -0.3943 | 0.005                      | -0.0750 |
| 0.010                       | -0.6477 | 0.010                    | -0.6467 | 0.010                      | -0.4136 |
| 0.020                       | -0.8596 | 0.020                    | -0.8475 | 0.020                      | -0.7945 |
| 0.040                       | -1.0085 | 0.040                    | -1.0094 | 0.040                      | -0.8824 |
| 0.060                       | -1.0801 | 0.060                    | -1.0327 | 0.060                      | -0.9450 |
| 0.080                       | -1.0408 | 0.080                    | -0.8976 | 0.080                      | -0.9603 |
| 0.100                       | -0.9861 | 0.100                    | -1.0022 | 0.100                      | -0.9405 |
| 0.125                       | -0.8316 | 0.125                    | -0.9670 | 0.125                      | -0.8350 |
| 0.150                       | -0.8912 | 0.150                    | -0.9608 | 0.150                      | -0.7470 |
| 0.175                       | -0.8587 | 0.175                    | -0.8808 | 0.175                      | -0.7736 |
| 0.200                       | -0.9401 | 0.200                    | -0.8917 | 0.200                      | -0.7792 |
| 0.250                       | -0.8665 | 0.250                    | -0.9005 | 0.250                      | -0.8073 |
| 0.300                       | -0.8257 | 0.300                    | -0.9280 | 0.300                      | -0.6784 |
| 0.350                       | -0.7435 | 0.350                    | -0.6869 | 0.350                      | -0.6424 |
| 0.400                       | -0.6141 | 0.400                    | -0.6448 | 0.400                      | -0.5978 |
| 0.450                       | -0.5322 | 0.450                    | -0.5831 | 0.450                      | -0.5495 |
| 0.500                       | -0.4945 | 0.500                    | -0.5505 | 0.500                      | -0.4865 |
| 0.550                       | -0.4175 | 0.550                    | -0.5134 | 0.550                      | -0.4506 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.6272 | 0.005 | 0.6645 | 0.005 | 0.6452 |
| 0.010 | 0.4565 | 0.010 | 0.4543 | 0.010 | 0.4079 |

Fight 12 Test point 20

Sweep, deg = 30.0 Mach = 0.76 hp, ft = 34800. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 205.0 Rnpu = 1863000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8195  | 0.000                    | 0.8526  | 0.000                      | 0.8571  |
| 0.005                       | 0.1631  | 0.005                    | 0.1843  | 0.005                      | 0.4261  |
| 0.010                       | -0.0694 | 0.010                    | -0.0252 | 0.010                      | 0.1700  |
| 0.020                       | -0.2897 | 0.020                    | -0.2618 | 0.020                      | -0.1327 |
| 0.040                       | -0.4502 | 0.040                    | -0.4023 | 0.040                      | -0.2971 |
| 0.060                       | -0.4940 | 0.060                    | -0.4671 | 0.060                      | -0.3718 |
| 0.080                       | -0.5220 | 0.080                    | -0.4991 | 0.080                      | -0.3934 |
| 0.100                       | -0.5268 | 0.100                    | -0.4974 | 0.100                      | -0.4213 |
| 0.125                       | -0.5010 | 0.125                    | -0.4940 | 0.125                      | -0.4236 |
| 0.150                       | -0.5855 | 0.150                    | -0.5407 | 0.150                      | -0.4527 |
| 0.175                       | -0.5779 | 0.175                    | -0.5717 | 0.175                      | -0.4908 |
| 0.200                       | -0.6294 | 0.200                    | -0.6041 | 0.200                      | -0.4845 |
| 0.250                       | -0.6373 | 0.250                    | -0.6558 | 0.250                      | -0.5272 |
| 0.300                       | -0.6205 | 0.300                    | -0.6484 | 0.300                      | -0.5212 |
| 0.350                       | -0.5885 | 0.350                    | -0.5859 | 0.350                      | -0.5369 |
| 0.400                       | -0.5342 | 0.400                    | -0.5808 | 0.400                      | -0.4978 |
| 0.450                       | -0.4638 | 0.450                    | -0.5219 | 0.450                      | -0.4761 |
| 0.500                       | -0.4409 | 0.500                    | -0.5021 | 0.500                      | -0.4295 |
| 0.550                       | -0.3796 | 0.550                    | -0.4800 | 0.550                      | -0.4185 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.2873 | 0.005 | 0.2979 | 0.005 | 0.2465  |
| 0.010 | 0.0545 | 0.010 | 0.0097 | 0.010 | -0.0948 |

Flight 12 Test point 21

Sweep, deg = 30.0 Mach = 0.76 hp, ft = 34500. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 207.7 Rnpu = 1883000.

Upper surface

| BL 200.8<br>inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7985  | 0.000                    | 0.8257  | 0.000                      | 0.8386  |
| 0.005                       | -0.0379 | 0.005                    | -0.0229 | 0.005                      | 0.2443  |
| 0.010                       | -0.2778 | 0.010                    | -0.2459 | 0.010                      | -0.0435 |
| 0.020                       | -0.4961 | 0.020                    | -0.4746 | 0.020                      | -0.3579 |
| 0.040                       | -0.6600 | 0.040                    | -0.5843 | 0.040                      | -0.4990 |
| 0.060                       | -0.6695 | 0.060                    | -0.6195 | 0.060                      | -0.5574 |
| 0.080                       | -0.6599 | 0.080                    | -0.7436 | 0.080                      | -0.5657 |
| 0.100                       | -0.7116 | 0.100                    | -0.6503 | 0.100                      | -0.5764 |
| 0.125                       | -0.5655 | 0.125                    | -0.6027 | 0.125                      | -0.5634 |
| 0.150                       | -0.7001 | 0.150                    | -0.6588 | 0.150                      | -0.5876 |
| 0.175                       | -0.6859 | 0.175                    | -0.7316 | 0.175                      | -0.6283 |
| 0.200                       | -0.7523 | 0.200                    | -0.6951 | 0.200                      | -0.6005 |
| 0.250                       | -0.7897 | 0.250                    | -0.8393 | 0.250                      | -0.6370 |
| 0.300                       | -0.7097 | 0.300                    | -0.7736 | 0.300                      | -0.9168 |
| 0.350                       | -0.6610 | 0.350                    | -0.6341 | 0.350                      | -0.5989 |
| 0.400                       | -0.5765 | 0.400                    | -0.6214 | 0.400                      | -0.5502 |
| 0.450                       | -0.5027 | 0.450                    | -0.5583 | 0.450                      | -0.5079 |
| 0.500                       | -0.4713 | 0.500                    | -0.5340 | 0.500                      | -0.4567 |
| 0.550                       | -0.4014 | 0.550                    | -0.5033 | 0.550                      | -0.4365 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4410 | 0.005 | 0.4683 | 0.005 | 0.4218 |
| 0.010 | 0.2260 | 0.010 | 0.2066 | 0.010 | 0.1312 |

Flight 12 Test point 22

Sweep, deg = 35.2 Mach = 0.75 hp, ft = 34900. Angle of attack, deg = 3.5  
 Angle of sideslip, deg = 0.0 CBAR, lb/ft<sup>2</sup> = 197.2 Rrho = 1821000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.5543  | 0.000                    | 0.5391  | 0.000                      | 0.5743  |
| 0.005                       | -0.5970 | 0.005                    | -0.6345 | 0.005                      | -0.3063 |
| 0.010                       | -0.8357 | 0.010                    | -0.8571 | 0.010                      | -0.6269 |
| 0.020                       | -1.0043 | 0.020                    | -1.0225 | 0.020                      | -1.0023 |
| 0.040                       | -1.1137 | 0.040                    | -1.1377 | 0.040                      | -0.9773 |
| 0.060                       | -1.1339 | 0.060                    | -1.1227 | 0.060                      | -1.0323 |
| 0.080                       | -1.0312 | 0.080                    | -0.9879 | 0.080                      | -0.9842 |
| 0.100                       | -0.9042 | 0.100                    | -0.8762 | 0.100                      | -0.8158 |
| 0.125                       | -0.6932 | 0.125                    | -0.9250 | 0.125                      | -0.7672 |
| 0.150                       | -0.7804 | 0.150                    | -0.8545 | 0.150                      | -0.7600 |
| 0.175                       | -0.7711 | 0.175                    | -0.8608 | 0.175                      | -0.7494 |
| 0.200                       | -0.8306 | 0.200                    | -0.7690 | 0.200                      | -0.7102 |
| 0.250                       | -0.8308 | 0.250                    | -0.7988 | 0.250                      | -0.7048 |
| 0.300                       | -0.7074 | 0.300                    | -0.7657 | 0.300                      | -0.6266 |
| 0.350                       | -0.6424 | 0.350                    | -0.6394 | 0.350                      | -0.5955 |
| 0.400                       | -0.5706 | 0.400                    | -0.6139 | 0.400                      | -0.5401 |
| 0.450                       | -0.4912 | 0.450                    | -0.5372 | 0.450                      | -0.4923 |
| 0.500                       | -0.4601 | 0.500                    | -0.4972 | 0.500                      | -0.4376 |
| 0.550                       | -0.3859 | 0.550                    | -0.4573 | 0.550                      | -0.4121 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.6113 | 0.005 | 0.6513 | 0.005 | 0.6406 |
| 0.010 | 0.4746 | 0.010 | 0.4901 | 0.010 | 0.4708 |

Flight 1. Test point 23

Sweep, deg = 35.2 Mach = 0.76 hp, ft = 34800. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 205.3 Rrho = 1869000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7143  | 0.000                    | 0.7377  | 0.000                      | 0.7535  |
| 0.005                       | 0.0208  | 0.005                    | 0.0247  | 0.005                      | 0.2730  |
| 0.010                       | -0.1921 | 0.010                    | -0.1642 | 0.010                      | 0.0265  |
| 0.020                       | -0.3777 | 0.020                    | -0.3617 | 0.020                      | -0.2387 |
| 0.040                       | -0.4921 | 0.040                    | -0.4695 | 0.040                      | -0.3675 |
| 0.060                       | -0.5116 | 0.060                    | -0.5085 | 0.060                      | -0.4199 |
| 0.080                       | -0.5314 | 0.080                    | -0.5162 | 0.080                      | -0.4302 |
| 0.100                       | -0.5287 | 0.100                    | -0.5059 | 0.100                      | -0.4361 |
| 0.125                       | -0.4897 | 0.125                    | -0.4951 | 0.125                      | -0.4340 |
| 0.150                       | -0.5571 | 0.150                    | -0.5208 | 0.150                      | -0.4511 |
| 0.175                       | -0.5414 | 0.175                    | -0.5411 | 0.175                      | -0.4725 |
| 0.200                       | -0.5743 | 0.200                    | -0.5578 | 0.200                      | -0.4581 |
| 0.250                       | -0.5768 | 0.250                    | -0.5862 | 0.250                      | -0.4877 |
| 0.300                       | -0.5604 | 0.300                    | -0.5663 | 0.300                      | -0.4776 |
| 0.350                       | -0.5250 | 0.350                    | -0.5223 | 0.350                      | -0.4810 |
| 0.400                       | -0.4827 | 0.400                    | -0.5121 | 0.400                      | -0.4514 |
| 0.450                       | -0.4273 | 0.450                    | -0.4674 | 0.450                      | -0.4248 |
| 0.500                       | -0.4011 | 0.500                    | -0.4464 | 0.500                      | -0.3915 |
| 0.550                       | -0.3479 | 0.550                    | -0.4329 | 0.550                      | -0.3858 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3132 | 0.005 | 0.3437 | 0.005 | 0.3042 |
| 0.010 | 0.1106 | 0.010 | 0.1028 | 0.010 | 0.0222 |

Flight 12 Test point 24

Sweep, deg = 35.2 Mach = 0.75 hp, ft = 34700. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 199.6 Rnpu = 1837000.

Upper surface

| BL 200.8<br>Inboard station |         | EL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.6954  | 0.000                    | 0.7114  | 0.000                      | 0.7249  |
| 0.005                       | -0.1069 | 0.005                    | -0.1116 | 0.005                      | 0.1520  |
| 0.010                       | -0.3228 | 0.010                    | -0.3060 | 0.010                      | -0.1116 |
| 0.020                       | -0.5106 | 0.020                    | -0.4907 | 0.020                      | -0.3818 |
| 0.040                       | -0.6056 | 0.040                    | -0.5788 | 0.040                      | -0.4880 |
| 0.060                       | -0.6102 | 0.060                    | -0.6121 | 0.060                      | -0.5110 |
| 0.080                       | -0.6068 | 0.080                    | -0.6003 | 0.080                      | -0.5076 |
| 0.100                       | -0.5954 | 0.100                    | -0.5753 | 0.100                      | -0.5082 |
| 0.125                       | -0.5421 | 0.125                    | -0.5554 | 0.125                      | -0.4905 |
| 0.150                       | -0.6119 | 0.150                    | -0.5862 | 0.150                      | -0.5059 |
| 0.175                       | -0.5823 | 0.175                    | -0.5960 | 0.175                      | -0.5209 |
| 0.200                       | -0.6162 | 0.200                    | -0.6029 | 0.200                      | -0.5020 |
| 0.250                       | -0.6091 | 0.250                    | -0.6258 | 0.250                      | -0.5261 |
| 0.300                       | -0.5843 | 0.300                    | -0.5972 | 0.300                      | -0.5006 |
| 0.350                       | -0.5447 | 0.350                    | -0.5439 | 0.350                      | -0.5005 |
| 0.400                       | -0.4913 | 0.400                    | -0.5358 | 0.400                      | -0.4681 |
| 0.450                       | -0.4360 | 0.450                    | -0.4786 | 0.450                      | -0.4388 |
| 0.500                       | -0.4187 | 0.500                    | -0.4626 | 0.500                      | -0.4018 |
| 0.550                       | -0.3568 | 0.550                    | -0.4463 | 0.550                      | -0.4010 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4009 | 0.005 | 0.4361 | 0.005 | 0.3972 |
| 0.010 | 0.2155 | 0.010 | 0.2039 | 0.010 | 0.1389 |



Flight 12 Test point 25

Sweep, deg = 35.2 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 2.8  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 225.5 Rnpu = 1961000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.6458  | 0.000                    | 0.6476  | 0.000                      | 0.6615  |
| 0.005                       | -0.2954 | 0.005                    | -0.3298 | 0.005                      | -0.0628 |
| 0.010                       | -0.5070 | 0.010                    | -0.5352 | 0.010                      | -0.3593 |
| 0.020                       | -0.6975 | 0.020                    | -0.7328 | 0.020                      | -0.7044 |
| 0.040                       | -0.8065 | 0.040                    | -0.8782 | 0.040                      | -0.7763 |
| 0.060                       | -0.9354 | 0.060                    | -0.9193 | 0.060                      | -0.8447 |
| 0.080                       | -0.8627 | 0.080                    | -0.7751 | 0.080                      | -0.8652 |
| 0.100                       | -0.8202 | 0.100                    | -0.9191 | 0.100                      | -0.8664 |
| 0.125                       | -0.7304 | 0.125                    | -0.8472 | 0.125                      | -0.8186 |
| 0.150                       | -0.8228 | 0.150                    | -0.8517 | 0.150                      | -0.7653 |
| 0.175                       | -0.8123 | 0.175                    | -0.8179 | 0.175                      | -0.7785 |
| 0.200                       | -0.8674 | 0.200                    | -0.8386 | 0.200                      | -0.7795 |
| 0.250                       | -0.9171 | 0.250                    | -0.9131 | 0.250                      | -0.8164 |
| 0.300                       | -0.7265 | 0.300                    | -0.9327 | 0.300                      | -0.8110 |
| 0.350                       | -0.7519 | 0.350                    | -0.9380 | 0.350                      | -0.8580 |
| 0.400                       | -0.7474 | 0.400                    | -0.7843 | 0.400                      | -0.4520 |
| 0.450                       | -0.5319 | 0.450                    | -0.4657 | 0.450                      | -0.4135 |
| 0.500                       | -0.4384 | 0.500                    | -0.4427 | 0.500                      | -0.3946 |
| 0.550                       | -0.3822 | 0.550                    | -0.4361 | 0.550                      | -0.3946 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5266 | 0.005 | 0.5702 | 0.005 | 0.5616 |
| 0.010 | 0.3645 | 0.010 | 0.3798 | 0.010 | 0.3566 |

Flight 12 Test point 26

Sweep, deg = 35.2 Mach = 0.80 hp, ft = 34700. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 228.1 Rnpu = 1981000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7187  | 0.000                    | 0.7464  | 0.000                      | 0.7529  |
| 0.005                       | 0.0747  | 0.005                    | 0.0763  | 0.005                      | 0.2946  |
| 0.010                       | -0.1338 | 0.010                    | -0.1124 | 0.010                      | 0.0525  |
| 0.020                       | -0.3364 | 0.020                    | -0.3214 | 0.020                      | -0.2278 |
| 0.040                       | -0.4786 | 0.040                    | -0.4258 | 0.040                      | -0.3678 |
| 0.060                       | -0.4844 | 0.060                    | -0.5033 | 0.060                      | -0.4275 |
| 0.080                       | -0.5204 | 0.080                    | -0.6475 | 0.080                      | -0.4434 |
| 0.100                       | -0.6005 | 0.100                    | -0.4813 | 0.100                      | -0.4578 |
| 0.125                       | -0.4711 | 0.125                    | -0.5141 | 0.125                      | -0.4554 |
| 0.150                       | -0.5537 | 0.150                    | -0.5373 | 0.150                      | -0.4865 |
| 0.175                       | -0.5790 | 0.175                    | -0.6146 | 0.175                      | -0.5176 |
| 0.200                       | -0.6238 | 0.200                    | -0.5652 | 0.200                      | -0.5039 |
| 0.250                       | -0.6428 | 0.250                    | -0.6852 | 0.250                      | -0.5585 |
| 0.300                       | -0.6302 | 0.300                    | -0.6767 | 0.300                      | -0.5558 |
| 0.350                       | -0.6190 | 0.350                    | -0.5671 | 0.350                      | -0.5281 |
| 0.400                       | -0.5442 | 0.400                    | -0.5365 | 0.400                      | -0.4851 |
| 0.450                       | -0.4614 | 0.450                    | -0.5083 | 0.450                      | -0.4541 |
| 0.500                       | -0.4233 | 0.500                    | -0.4784 | 0.500                      | -0.4061 |
| 0.550                       | -0.3665 | 0.550                    | -0.4511 | 0.550                      | -0.3994 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.2942 | 0.005 | 0.3208 | 0.005 | 0.2894 |
| 0.010 | 0.0878 | 0.010 | 0.0738 | 0.010 | 0.0102 |

Flight 12 Test point 27

Sweep, deg = 35.2 Mach = 0.81 hp, ft = 34700. Angle of attack, deg = 3.2  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 228.9 R<sub>npu</sub> = 1984000.

Upper surface

| BL 200.8<br>Inboard station |                | BL 260<br>Middle station |                | BL 320<br>Outboard station |                |
|-----------------------------|----------------|--------------------------|----------------|----------------------------|----------------|
| x/c                         | C <sub>p</sub> | x/c                      | C <sub>p</sub> | x/c                        | C <sub>p</sub> |
| 0.000                       | 0.6225         | 0.000                    | 0.6187         | 0.000                      | 0.6346         |
| 0.005                       | -0.3682        | 0.005                    | -0.4002        | 0.005                      | -0.1335        |
| 0.010                       | -0.6032        | 0.010                    | -0.6172        | 0.010                      | -0.4240        |
| 0.020                       | -0.7842        | 0.020                    | -0.7986        | 0.020                      | -0.7922        |
| 0.040                       | -0.9082        | 0.040                    | -0.9435        | 0.040                      | -0.8301        |
| 0.060                       | -0.9798        | 0.060                    | -0.9654        | 0.060                      | -0.9074        |
| 0.080                       | -0.9559        | 0.080                    | -0.8613        | 0.080                      | -0.9448        |
| 0.100                       | -0.9362        | 0.100                    | -0.9615        | 0.100                      | -0.9545        |
| 0.125                       | -0.7964        | 0.125                    | -0.9424        | 0.125                      | -0.9295        |
| 0.150                       | -0.8701        | 0.150                    | -0.9493        | 0.150                      | -0.9032        |
| 0.175                       | -0.8389        | 0.175                    | -0.9329        | 0.175                      | -0.8982        |
| 0.200                       | -0.8841        | 0.200                    | -0.9194        | 0.200                      | -0.8692        |
| 0.250                       | -0.9595        | 0.250                    | -0.9565        | 0.250                      | -0.8740        |
| 0.300                       | -0.9657        | 0.300                    | -0.9664        | 0.300                      | -0.9057        |
| 0.350                       | -0.7582        | 0.350                    | -0.9730        | 0.350                      | -0.9450        |
| 0.400                       | -0.7625        | 0.400                    | -1.0124        | 0.400                      | -0.4874        |
| 0.450                       | -0.5623        | 0.450                    | -0.4786        | 0.450                      | -0.3724        |
| 0.500                       | -0.4321        | 0.500                    | -0.4217        | 0.500                      | -0.3679        |
| 0.550                       | -0.3759        | 0.550                    | -0.4108        | 0.550                      | -0.3738        |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5644 | 0.005 | 0.6032 | 0.005 | 0.5939 |
| 0.010 | 0.4148 | 0.010 | 0.4257 | 0.010 | 0.4083 |

Flight 12 Test point 28

Sweep, deg = 30.0 Mach = 0.80 hp, ft = 34900. Angle of attack, deg = 2.3  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 224.5 Rnpu = 1957000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7835  | 0.000                    | 0.7989  | 0.000                      | 0.8124  |
| 0.005                       | -0.1057 | 0.005                    | -0.1033 | 0.005                      | 0.1518  |
| 0.010                       | -0.3496 | 0.010                    | -0.3382 | 0.010                      | -0.1485 |
| 0.020                       | -0.5707 | 0.020                    | -0.5589 | 0.020                      | -0.4869 |
| 0.040                       | -0.7176 | 0.040                    | -0.7154 | 0.040                      | -0.6247 |
| 0.060                       | -0.8345 | 0.060                    | -0.6984 | 0.060                      | -0.7221 |
| 0.080                       | -0.7849 | 0.080                    | -0.6840 | 0.080                      | -0.7393 |
| 0.100                       | -0.7926 | 0.100                    | -0.8552 | 0.100                      | -0.7535 |
| 0.125                       | -0.7185 | 0.125                    | -0.8041 | 0.125                      | -0.7218 |
| 0.150                       | -0.7878 | 0.150                    | -0.8162 | 0.150                      | -0.7077 |
| 0.175                       | -0.7795 | 0.175                    | -0.8120 | 0.175                      | -0.7470 |
| 0.200                       | -0.8414 | 0.200                    | -0.8151 | 0.200                      | -0.7338 |
| 0.250                       | -0.9132 | 0.250                    | -0.9086 | 0.250                      | -0.8092 |
| 0.300                       | -0.9857 | 0.300                    | -0.9689 | 0.300                      | -0.8399 |
| 0.350                       | -0.9467 | 0.350                    | -0.9789 | 0.350                      | -0.9055 |
| 0.400                       | -0.7685 | 0.400                    | -1.0332 | 0.400                      | -0.9298 |
| 0.450                       | -0.7500 | 0.450                    | -1.0404 | 0.450                      | -0.9731 |
| 0.500                       | -0.4806 | 0.500                    | -0.6947 | 0.500                      | -0.6761 |
| 0.550                       | -0.3899 | 0.550                    | -0.4125 | 0.550                      | -0.3532 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5219 | 0.005 | 0.5455 | 0.005 | 0.5282 |
| 0.010 | 0.3277 | 0.010 | 0.3137 | 0.010 | 0.2604 |

Flight 12 Test point 29

Sweep, deg = 30.0 Mach = 0.81 hp, ft = 34500. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 232.6 Rrho = 2009000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8248  | 0.000                    | 0.8523  | 0.000                      | 0.8546  |
| 0.005                       | 0.1537  | 0.005                    | 0.1696  | 0.005                      | 0.3857  |
| 0.010                       | -0.0822 | 0.010                    | -0.0450 | 0.010                      | 0.1305  |
| 0.020                       | -0.3040 | 0.020                    | -0.2794 | 0.020                      | -0.1788 |
| 0.040                       | -0.4781 | 0.040                    | -0.4172 | 0.040                      | -0.3443 |
| 0.060                       | -0.5325 | 0.060                    | -0.4774 | 0.060                      | -0.4342 |
| 0.080                       | -0.5017 | 0.080                    | -0.6185 | 0.080                      | -0.4647 |
| 0.100                       | -0.6001 | 0.100                    | -0.5946 | 0.100                      | -0.4852 |
| 0.125                       | -0.5849 | 0.125                    | -0.4997 | 0.125                      | -0.5064 |
| 0.150                       | -0.6202 | 0.150                    | -0.5710 | 0.150                      | -0.5325 |
| 0.175                       | -0.6835 | 0.175                    | -0.6343 | 0.175                      | -0.5771 |
| 0.200                       | -0.7253 | 0.200                    | -0.6892 | 0.200                      | -0.6116 |
| 0.250                       | -0.7692 | 0.250                    | -0.7549 | 0.250                      | -0.6550 |
| 0.300                       | -0.7024 | 0.300                    | -0.7996 | 0.300                      | -0.6770 |
| 0.350                       | -0.7437 | 0.350                    | -0.8419 | 0.350                      | -0.7436 |
| 0.400                       | -0.7281 | 0.400                    | -0.8879 | 0.400                      | -0.7789 |
| 0.450                       | -0.7134 | 0.450                    | -0.9231 | 0.450                      | -0.7604 |
| 0.500                       | -0.4569 | 0.500                    | -0.4471 | 0.500                      | -0.3577 |
| 0.550                       | -0.3777 | 0.550                    | -0.4341 | 0.550                      | -0.3841 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3317 | 0.005 | 0.3505 | 0.005 | 0.2173  |
| 0.010 | 0.1013 | 0.010 | 0.0711 | 0.010 | -0.0088 |

Flight 12 Test point 30

Sweep, deg = 30.0 Mach = 0.80 hp, ft = 34800. Angle of attack, deg = 3.1  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 227.8 Rnpu = 1977000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7540  | 0.000                    | 0.7660  | 0.000                      | 0.7738  |
| 0.005                       | -0.2385 | 0.005                    | -0.2391 | 0.005                      | 0.0309  |
| 0.010                       | -0.4822 | 0.010                    | -0.4766 | 0.010                      | -0.2782 |
| 0.020                       | -0.6973 | 0.020                    | -0.6842 | 0.020                      | -0.6483 |
| 0.040                       | -0.8634 | 0.040                    | -0.8626 | 0.040                      | -0.7432 |
| 0.060                       | -0.9257 | 0.060                    | -0.9001 | 0.060                      | -0.8282 |
| 0.080                       | -0.9278 | 0.080                    | -0.8459 | 0.080                      | -0.8753 |
| 0.100                       | -0.9335 | 0.100                    | -0.8913 | 0.100                      | -0.8924 |
| 0.125                       | -0.7954 | 0.125                    | -0.9174 | 0.125                      | -0.8799 |
| 0.150                       | -0.9349 | 0.150                    | -0.9426 | 0.150                      | -0.8775 |
| 0.175                       | -0.9018 | 0.175                    | -0.9484 | 0.175                      | -0.8764 |
| 0.200                       | -0.9574 | 0.200                    | -0.9426 | 0.200                      | -0.8643 |
| 0.250                       | -1.0215 | 0.250                    | -1.0235 | 0.250                      | -0.9251 |
| 0.300                       | -1.0634 | 0.300                    | -1.0373 | 0.300                      | -0.9282 |
| 0.350                       | -1.0142 | 0.350                    | -1.0615 | 0.350                      | -0.9885 |
| 0.400                       | -1.0011 | 0.400                    | -1.1306 | 0.400                      | -1.0272 |
| 0.450                       | -1.0136 | 0.450                    | -1.1286 | 0.450                      | -1.0774 |
| 0.500                       | -0.5515 | 0.500                    | -0.7581 | 0.500                      | -0.5941 |
| 0.550                       | -0.3785 | 0.550                    | -0.4898 | 0.550                      | -0.4137 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.6023 | 0.005 | 0.6306 | 0.005 | 0.6135 |
| 0.010 | 0.4255 | 0.010 | 0.4191 | 0.010 | 0.3711 |

Flight 12 Test point 31

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 2.3  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 224.3 Rnpu = 1955000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9714  | 0.000                    | 0.9983  | 0.000                      | 1.0051  |
| 0.005                       | 0.0698  | 0.005                    | 0.1172  | 0.005                      | 0.3896  |
| 0.010                       | -0.1974 | 0.010                    | -0.1370 | 0.010                      | 0.0828  |
| 0.020                       | -0.4429 | 0.020                    | -0.4001 | 0.020                      | -0.2897 |
| 0.040                       | -0.8816 | 0.040                    | -0.5814 | 0.040                      | -0.4617 |
| 0.060                       | -0.7261 | 0.060                    | -0.6331 | 0.060                      | -0.5701 |
| 0.080                       | -0.7663 | 0.080                    | -0.6541 | 0.080                      | -0.6251 |
| 0.100                       | -0.7878 | 0.100                    | -0.7513 | 0.100                      | -0.6483 |
| 0.125                       | -0.7156 | 0.125                    | -0.7899 | 0.125                      | -0.6506 |
| 0.150                       | -0.8335 | 0.150                    | -0.7697 | 0.150                      | -0.6789 |
| 0.175                       | -0.8329 | 0.175                    | -0.7877 | 0.175                      | -0.6990 |
| 0.200                       | -0.9108 | 0.200                    | -0.8091 | 0.200                      | -0.7217 |
| 0.250                       | -0.9908 | 0.250                    | -0.9205 | 0.250                      | -0.7996 |
| 0.300                       | -1.0675 | 0.300                    | -0.9682 | 0.300                      | -0.8518 |
| 0.350                       | -0.8124 | 0.350                    | -1.0171 | 0.350                      | -0.9223 |
| 0.400                       | -0.7651 | 0.400                    | -1.0947 | 0.400                      | -0.9697 |
| 0.450                       | -0.7609 | 0.450                    | -1.0854 | 0.450                      | -0.9790 |
| 0.500                       | -0.6060 | 0.500                    | -0.7443 | 0.500                      | -0.7230 |
| 0.550                       | -0.4425 | 0.550                    | -0.4881 | 0.550                      | -0.4919 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5791 | 0.005 | 0.5760 | 0.005 | 0.5362 |
| 0.010 | 0.3401 | 0.010 | 0.2849 | 0.010 | 0.1904 |

Fight 12 Test point 32

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 34900. Angle of attack, deg = 3.4  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 225.1 Rnpu = 1960000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9418  | 0.000                    | 0.9704  | 0.000                      | 0.9352  |
| 0.005                       | -0.0757 | 0.005                    | -0.0315 | 0.005                      | 0.2650  |
| 0.010                       | -0.3549 | 0.010                    | -0.2998 | 0.010                      | -0.0629 |
| 0.020                       | -0.5981 | 0.020                    | -0.5431 | 0.020                      | -0.4436 |
| 0.040                       | -0.8034 | 0.040                    | -0.7442 | 0.040                      | -0.6118 |
| 0.060                       | -0.8626 | 0.060                    | -0.8090 | 0.060                      | -0.7074 |
| 0.080                       | -0.9282 | 0.080                    | -0.7738 | 0.080                      | -0.7782 |
| 0.100                       | -0.9219 | 0.100                    | -0.7856 | 0.100                      | -0.7976 |
| 0.125                       | -0.8222 | 0.125                    | -0.9161 | 0.125                      | -0.7976 |
| 0.150                       | -0.9247 | 0.150                    | -0.8967 | 0.150                      | -0.8122 |
| 0.175                       | -0.9338 | 0.175                    | -0.9320 | 0.175                      | -0.8180 |
| 0.200                       | -1.0106 | 0.200                    | -0.9334 | 0.200                      | -0.8301 |
| 0.250                       | -1.0800 | 0.250                    | -1.0141 | 0.250                      | -0.8877 |
| 0.300                       | -1.1464 | 0.300                    | -1.0684 | 0.300                      | -0.9291 |
| 0.350                       | -0.7257 | 0.350                    | -1.1105 | 0.350                      | -1.0005 |
| 0.400                       | -0.5519 | 0.400                    | -1.1159 | 0.400                      | -1.0385 |
| 0.450                       | -0.5142 | 0.450                    | -0.8895 | 0.450                      | -0.8654 |
| 0.500                       | -0.5195 | 0.500                    | -0.5660 | 0.500                      | -0.4338 |
| 0.550                       | -0.4584 | 0.550                    | -0.4941 | 0.550                      | -0.3758 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.6968 | 0.005 | 0.6921 | 0.005 | 0.6502 |
| 0.010 | 0.4845 | 0.010 | 0.4323 | 0.010 | 0.3468 |



Flight 12 Test point 33

Sweep, deg = 20.0 Mach = 0.81 hp, ft = 34500. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 233.1 R<sub>npu</sub> = 2012000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9925  | 0.000                    | 1.0282  | 0.000                      | 1.0146  |
| 0.005                       | 0.3613  | 0.005                    | 0.4005  | 0.005                      | 0.6242  |
| 0.010                       | 0.0970  | 0.010                    | 0.1658  | 0.010                      | 0.3572  |
| 0.020                       | -0.1634 | 0.020                    | -0.1074 | 0.020                      | 0.0178  |
| 0.040                       | -0.3779 | 0.040                    | -0.2919 | 0.040                      | -0.1836 |
| 0.060                       | -0.4640 | 0.060                    | -0.3707 | 0.060                      | -0.3079 |
| 0.080                       | -0.4910 | 0.080                    | -0.4907 | 0.080                      | -0.3591 |
| 0.100                       | -0.5326 | 0.100                    | -0.4812 | 0.100                      | -0.3942 |
| 0.125                       | -0.5944 | 0.125                    | -0.4711 | 0.125                      | -0.4223 |
| 0.150                       | -0.6103 | 0.150                    | -0.5292 | 0.150                      | -0.4718 |
| 0.175                       | -0.6465 | 0.175                    | -0.5928 | 0.175                      | -0.5144 |
| 0.200                       | -0.7077 | 0.200                    | -0.6444 | 0.200                      | -0.5585 |
| 0.250                       | -0.8138 | 0.250                    | -0.7509 | 0.250                      | -0.6466 |
| 0.300                       | -0.8835 | 0.300                    | -0.8402 | 0.300                      | -0.6928 |
| 0.350                       | -0.8786 | 0.350                    | -0.8680 | 0.350                      | -0.7724 |
| 0.400                       | -0.9179 | 0.400                    | -0.9540 | 0.400                      | -0.8169 |
| 0.450                       | -0.9320 | 0.450                    | -0.9717 | 0.450                      | -0.8724 |
| 0.500                       | -1.0169 | 0.500                    | -1.0210 | 0.500                      | -0.9084 |
| 0.550                       | -0.5247 | 0.550                    | -0.8964 | 0.550                      | -0.8676 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3384 | 0.005 | 0.3305  | 0.005 | 0.2756  |
| 0.010 | 0.0604 | 0.010 | -0.0160 | 0.010 | -0.1352 |

Flight 12 Test point 34

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 34900. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 225.3 Rrho = 1964000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8900  | 0.000                    | 0.9125  | 0.000                      | 0.9222  |
| 0.005                       | 0.0548  | 0.005                    | 0.0794  | 0.005                      | 0.3383  |
| 0.010                       | -0.1958 | 0.010                    | -0.1611 | 0.010                      | 0.0390  |
| 0.020                       | -0.4302 | 0.020                    | -0.4056 | 0.020                      | -0.3051 |
| 0.040                       | -0.6710 | 0.040                    | -0.5621 | 0.040                      | -0.4684 |
| 0.060                       | -0.6697 | 0.060                    | -0.5492 | 0.060                      | -0.6134 |
| 0.080                       | -0.7091 | 0.080                    | -0.6517 | 0.080                      | -0.6001 |
| 0.100                       | -0.7236 | 0.100                    | -0.7970 | 0.100                      | -0.6259 |
| 0.125                       | -0.6789 | 0.125                    | -0.7341 | 0.125                      | -0.6076 |
| 0.150                       | -0.7629 | 0.150                    | -0.7419 | 0.150                      | -0.6261 |
| 0.175                       | -0.7730 | 0.175                    | -0.7357 | 0.175                      | -0.6690 |
| 0.200                       | -0.8438 | 0.200                    | -0.7619 | 0.200                      | -0.6779 |
| 0.250                       | -0.9179 | 0.250                    | -0.8639 | 0.250                      | -0.7741 |
| 0.300                       | -0.9805 | 0.300                    | -0.9344 | 0.300                      | -0.8307 |
| 0.350                       | -0.9469 | 0.350                    | -0.9699 | 0.350                      | -0.8893 |
| 0.400                       | -0.9685 | 0.400                    | -1.0491 | 0.400                      | -0.9167 |
| 0.450                       | -0.9683 | 0.450                    | -1.0471 | 0.450                      | -0.9726 |
| 0.500                       | -0.7488 | 0.500                    | -0.9700 | 0.500                      | -0.9969 |
| 0.550                       | -0.4007 | 0.550                    | -0.4463 | 0.550                      | -0.4497 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4955 | 0.005 | 0.5070 | 0.005 | 0.4685 |
| 0.010 | 0.2679 | 0.010 | 0.2262 | 0.010 | 0.1481 |

Flight 12 Test point 35

Sweep, deg = 21.7 Mach = 0.77 hp, ft = 24300. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 339.0 Rnpu = 2813000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9493  | 0.000                    | 0.9730  | 0.000                      | 0.9684  |
| 0.005                       | 0.2292  | 0.005                    | 0.2774  | 0.005                      | 0.5184  |
| 0.010                       | -0.0367 | 0.010                    | 0.0267  | 0.010                      | 0.2473  |
| 0.020                       | -0.2948 | 0.020                    | -0.2373 | 0.020                      | -0.1057 |
| 0.040                       | -0.4941 | 0.040                    | -0.4266 | 0.040                      | -0.2935 |
| 0.060                       | -0.5662 | 0.060                    | -0.5020 | 0.060                      | -0.4045 |
| 0.080                       | -0.6105 | 0.080                    | -0.5520 | 0.080                      | -0.4500 |
| 0.100                       | -0.6414 | 0.100                    | -0.5627 | 0.100                      | -0.4870 |
| 0.125                       | -0.6008 | 0.125                    | -0.5939 | 0.125                      | -0.5034 |
| 0.150                       | -0.7006 | 0.150                    | -0.6303 | 0.150                      | -0.5425 |
| 0.175                       | -0.6942 | 0.175                    | -0.6747 | 0.175                      | -0.5692 |
| 0.200                       | -0.7587 | 0.200                    | -0.7010 | 0.200                      | -0.5905 |
| 0.250                       | -0.8310 | 0.250                    | -0.8337 | 0.250                      | -0.6450 |
| 0.300                       | -0.8153 | 0.300                    | -0.7949 | 0.300                      | -0.6727 |
| 0.350                       | -0.8072 | 0.350                    | -0.8182 | 0.350                      | -0.7017 |
| 0.400                       | -0.7158 | 0.400                    | -0.7656 | 0.400                      | -0.6769 |
| 0.450                       | -0.6146 | 0.450                    | -0.6114 | 0.450                      | -0.5850 |
| 0.500                       | -0.5373 | 0.500                    | -0.5753 | 0.500                      | -0.5078 |
| 0.550                       | -0.4564 | 0.550                    | -0.5552 | 0.550                      | -0.4712 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3501 | 0.005 | 0.3352 | 0.005 | 0.2701  |
| 0.010 | 0.0862 | 0.010 | 0.0075 | 0.010 | -0.1227 |

Flight 12 Test point 36

Sweep, deg = 25.6 Mach = 0.80 hp, ft = 34800. Angle of attack, deg = 3.3  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 226.5 Rnpu = 1970000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8344  | 0.000                    | 0.8549  | 0.000                      | 0.8661  |
| 0.005                       | -0.1938 | 0.005                    | -0.1724 | 0.005                      | 0.1169  |
| 0.010                       | -0.4554 | 0.010                    | -0.4254 | 0.010                      | -0.2042 |
| 0.020                       | -0.6785 | 0.020                    | -0.6495 | 0.020                      | -0.5817 |
| 0.040                       | -0.8642 | 0.040                    | -0.8373 | 0.040                      | -0.7134 |
| 0.060                       | -0.9059 | 0.060                    | -0.8708 | 0.060                      | -0.7982 |
| 0.080                       | -0.9475 | 0.080                    | -0.8701 | 0.080                      | -0.8518 |
| 0.100                       | -0.9607 | 0.100                    | -0.8646 | 0.100                      | -0.8761 |
| 0.125                       | -0.8444 | 0.125                    | -0.9713 | 0.125                      | -0.8765 |
| 0.150                       | -0.9737 | 0.150                    | -0.9457 | 0.150                      | -0.8826 |
| 0.175                       | -0.9520 | 0.175                    | -0.9719 | 0.175                      | -0.8789 |
| 0.200                       | -1.0185 | 0.200                    | -0.9690 | 0.200                      | -0.8956 |
| 0.250                       | -1.0875 | 0.250                    | -1.0572 | 0.250                      | -0.9362 |
| 0.300                       | -1.1449 | 0.300                    | -1.0678 | 0.300                      | -0.9660 |
| 0.350                       | -1.1364 | 0.350                    | -1.1208 | 0.350                      | -1.0204 |
| 0.400                       | -1.1205 | 0.400                    | -1.1301 | 0.400                      | -1.0138 |
| 0.450                       | -0.6561 | 0.450                    | -0.6311 | 0.450                      | -0.5734 |
| 0.500                       | -0.6002 | 0.500                    | -0.5759 | 0.500                      | -0.4443 |
| 0.550                       | -0.5146 | 0.550                    | -0.5389 | 0.550                      | -0.4052 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.6679 | 0.005 | 0.6819 | 0.005 | 0.6469 |
| 0.010 | 0.4777 | 0.010 | 0.4437 | 0.010 | 0.3870 |

Fight 12 Test point 37

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 19900. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 383.7 Rnpu = 3153000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9679  | 0.000                    | 0.9969  | 0.000                      | 0.9922  |
| 0.005                       | 0.3088  | 0.005                    | 0.3665  | 0.005                      | 0.6021  |
| 0.010                       | 0.0383  | 0.010                    | 0.1093  | 0.010                      | 0.3340  |
| 0.020                       | -0.2240 | 0.020                    | -0.1618 | 0.020                      | -0.0170 |
| 0.040                       | -0.4304 | 0.040                    | -0.3474 | 0.040                      | -0.2132 |
| 0.060                       | -0.5018 | 0.060                    | -0.4292 | 0.060                      | -0.3242 |
| 0.080                       | -0.5440 | 0.080                    | -0.4920 | 0.080                      | -0.3713 |
| 0.100                       | -0.5837 | 0.100                    | -0.5087 | 0.100                      | -0.4074 |
| 0.125                       | -0.5468 | 0.125                    | -0.5254 | 0.125                      | -0.4280 |
| 0.150                       | -0.6445 | 0.150                    | -0.5715 | 0.150                      | -0.4719 |
| 0.175                       | -0.6401 | 0.175                    | -0.6233 | 0.175                      | -0.5138 |
| 0.200                       | -0.7112 | 0.200                    | -0.6476 | 0.200                      | -0.5294 |
| 0.250                       | -0.7796 | 0.250                    | -0.7943 | 0.250                      | -0.5967 |
| 0.300                       | -0.7314 | 0.300                    | -0.7409 | 0.300                      | -0.6137 |
| 0.350                       | -0.7295 | 0.350                    | -0.7330 | 0.350                      | -0.6309 |
| 0.400                       | -0.6178 | 0.400                    | -0.6776 | 0.400                      | -0.5899 |
| 0.450                       | -0.5394 | 0.450                    | -0.5985 | 0.450                      | -0.5656 |
| 0.500                       | -0.5051 | 0.500                    | -0.5756 | 0.500                      | -0.5132 |
| 0.550                       | -0.4476 | 0.550                    | -0.5632 | 0.550                      | -0.4857 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2934 | 0.005 | 0.2720  | 0.005 | 0.1929  |
| 0.010 | 0.0116 | 0.010 | -0.0780 | 0.010 | -0.2211 |

Fight 13 Test point 1

Sweep, deg = 34.7 Mach = 0.71 hp, ft = 34400. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 180.5 R<sub>npu</sub> = 1751000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7175  | 0.000                    | 0.7567  | 0.000                      | 0.7603  |
| 0.005                       | 0.1266  | 0.005                    | 0.1458  | 0.005                      | 0.3762  |
| 0.010                       | -0.0862 | 0.010                    | -0.0367 | 0.010                      | 0.1443  |
| 0.020                       | -0.2634 | 0.020                    | -0.2372 | 0.020                      | -0.1092 |
| 0.040                       | -0.3862 | 0.040                    | -0.3475 | 0.040                      | -0.2367 |
| 0.060                       | -0.4232 | 0.060                    | -0.3828 | 0.060                      | -0.2975 |
| 0.080                       | -0.4341 | 0.080                    | -0.4039 | 0.080                      | -0.3094 |
| 0.100                       | -0.4330 | 0.100                    | -0.3972 | 0.100                      | -0.3216 |
| 0.125                       | -0.4042 | 0.125                    | -0.3988 | 0.125                      | -0.3353 |
| 0.150                       | -0.4636 | 0.150                    | -0.4240 | 0.150                      | -0.3490 |
| 0.175                       | -0.4575 | 0.175                    | -0.4428 | 0.175                      | -0.3724 |
| 0.200                       | -0.4903 | 0.200                    | -0.4567 | 0.200                      | -0.3543 |
| 0.250                       | -0.4933 | 0.250                    | -0.4913 | 0.250                      | -0.3973 |
| 0.300                       | -0.4706 | 0.300                    | -0.4773 | 0.300                      | -0.3893 |
| 0.350                       | -0.4556 | 0.350                    | -0.4484 | 0.350                      | -0.4029 |
| 0.400                       | -0.4139 | 0.400                    | -0.4561 | 0.400                      | -0.3873 |
| 0.450                       | -0.3732 | 0.450                    | -0.4112 | 0.450                      | -0.3720 |
| 0.500                       | -0.3657 | 0.500                    | -0.4041 | 0.500                      | -0.3562 |
| 0.550                       | -0.3197 | 0.550                    | -0.3978 | 0.550                      | -0.3650 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2068 | 0.005 | 0.2373  | 0.005 | 0.1766  |
| 0.010 | 0.0042 | 0.010 | -0.0232 | 0.010 | -0.1392 |

Fight 13 Test point 2

Sweep, deg = 34.5 Mach = 0.70 t.p, ft = 34400. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 177.0 Rnpu = 1731000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7080  | 0.000                    | 0.7397  | 0.000                      | 0.7495  |
| 0.005                       | -0.0373 | 0.005                    | -0.0235 | 0.005                      | 0.2369  |
| 0.010                       | -0.2466 | 0.010                    | -0.2143 | 0.010                      | -0.0188 |
| 0.020                       | -0.4187 | 0.020                    | -0.3939 | 0.020                      | -0.2778 |
| 0.040                       | -0.5153 | 0.040                    | -0.4834 | 0.040                      | -0.3754 |
| 0.060                       | -0.5343 | 0.060                    | -0.4967 | 0.060                      | -0.4111 |
| 0.080                       | -0.5317 | 0.080                    | -0.5039 | 0.080                      | -0.4143 |
| 0.100                       | -0.5152 | 0.100                    | -0.4920 | 0.100                      | -0.4147 |
| 0.125                       | -0.4667 | 0.125                    | -0.4773 | 0.125                      | -0.4055 |
| 0.150                       | -0.5275 | 0.150                    | -0.4991 | 0.150                      | -0.4244 |
| 0.175                       | -0.5151 | 0.175                    | -0.5134 | 0.175                      | -0.4359 |
| 0.200                       | -0.5433 | 0.200                    | -0.5217 | 0.200                      | -0.4193 |
| 0.250                       | -0.5430 | 0.250                    | -0.5453 | 0.250                      | -0.4490 |
| 0.300                       | -0.5221 | 0.300                    | -0.5237 | 0.300                      | -0.4289 |
| 0.350                       | -0.4847 | 0.350                    | -0.4764 | 0.350                      | -0.4347 |
| 0.400                       | -0.4428 | 0.400                    | -0.4848 | 0.400                      | -0.4165 |
| 0.450                       | -0.3992 | 0.450                    | -0.4340 | 0.450                      | -0.3987 |
| 0.500                       | -0.3831 | 0.500                    | -0.4231 | 0.500                      | -0.3744 |
| 0.550                       | -0.3329 | 0.550                    | -0.4094 | 0.550                      | -0.3689 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3333 | 0.005 | 0.3735 | 0.005 | 0.3234 |
| 0.010 | 0.1416 | 0.010 | 0.1262 | 0.010 | 0.0405 |

Fight 13 Test point 3

Sweep, deg = 29.7 Mach = 0.71 hp, ft = 34900. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 178.2 Rnpu = 1728000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8094  | 0.000                    | 0.8475  | 0.000                      | 0.8422  |
| 0.005                       | 0.2477  | 0.005                    | 0.2769  | 0.005                      | 0.5061  |
| 0.010                       | 0.0175  | 0.010                    | 0.0747  | 0.010                      | 0.2669  |
| 0.020                       | -0.1931 | 0.020                    | -0.1594 | 0.020                      | -0.0145 |
| 0.040                       | -0.3510 | 0.040                    | -0.3016 | 0.040                      | -0.1751 |
| 0.060                       | -0.4025 | 0.060                    | -0.3509 | 0.060                      | -0.2529 |
| 0.080                       | -0.4347 | 0.080                    | -0.3861 | 0.080                      | -0.2929 |
| 0.100                       | -0.4414 | 0.100                    | -0.4016 | 0.100                      | -0.3123 |
| 0.125                       | -0.4139 | 0.125                    | -0.4063 | 0.125                      | -0.3244 |
| 0.150                       | -0.4823 | 0.150                    | -0.4407 | 0.150                      | -0.3535 |
| 0.175                       | -0.4848 | 0.175                    | -0.4630 | 0.175                      | -0.3809 |
| 0.200                       | -0.5184 | 0.200                    | -0.4788 | 0.200                      | -0.3708 |
| 0.250                       | -0.5348 | 0.250                    | -0.5308 | 0.250                      | -0.4178 |
| 0.300                       | -0.5163 | 0.300                    | -0.5211 | 0.300                      | -0.4157 |
| 0.350                       | -0.4957 | 0.350                    | -0.4890 | 0.350                      | -0.4369 |
| 0.400                       | -0.4538 | 0.400                    | -0.4964 | 0.400                      | -0.4216 |
| 0.450                       | -0.4064 | 0.450                    | -0.4498 | 0.450                      | -0.4086 |
| 0.500                       | -0.3970 | 0.500                    | -0.4479 | 0.500                      | -0.3794 |
| 0.550                       | -0.3468 | 0.550                    | -0.4364 | 0.550                      | -0.3906 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.1709  | 0.005 | 0.1843  | 0.005 | 0.1115  |
| 0.010 | -0.0628 | 0.010 | -0.1227 | 0.010 | -0.2632 |



Fight 13 Test point 4

Sweep, deg = 29.7 Mach = 0.70 hp, ft = 35100. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 171.9 Rnpu = 1690000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7946  | 0.000                    | 0.8252  | 0.000                      | 0.8402  |
| 0.005                       | -0.0606 | 0.005                    | -0.0323 | 0.005                      | 0.2555  |
| 0.010                       | -0.3020 | 0.010                    | -0.2553 | 0.010                      | -0.0259 |
| 0.020                       | -0.4954 | 0.020                    | -0.4643 | 0.020                      | -0.3198 |
| 0.040                       | -0.6098 | 0.040                    | -0.5659 | 0.040                      | -0.4415 |
| 0.060                       | -0.6246 | 0.060                    | -0.5867 | 0.060                      | -0.4824 |
| 0.080                       | -0.6249 | 0.080                    | -0.5912 | 0.080                      | -0.4876 |
| 0.100                       | -0.6076 | 0.100                    | -0.5821 | 0.100                      | -0.4881 |
| 0.125                       | -0.5460 | 0.125                    | -0.5655 | 0.125                      | -0.4782 |
| 0.150                       | -0.6185 | 0.150                    | -0.5883 | 0.150                      | -0.4920 |
| 0.175                       | -0.6014 | 0.175                    | -0.5994 | 0.175                      | -0.5159 |
| 0.200                       | -0.6414 | 0.200                    | -0.6110 | 0.200                      | -0.4852 |
| 0.250                       | -0.6341 | 0.250                    | -0.6396 | 0.250                      | -0.5255 |
| 0.300                       | -0.6003 | 0.300                    | -0.6101 | 0.300                      | -0.5100 |
| 0.350                       | -0.5612 | 0.350                    | -0.5655 | 0.350                      | -0.5110 |
| 0.400                       | -0.5007 | 0.400                    | -0.5629 | 0.400                      | -0.4810 |
| 0.450                       | -0.4490 | 0.450                    | -0.4958 | 0.450                      | -0.4625 |
| 0.500                       | -0.4407 | 0.500                    | -0.4814 | 0.500                      | -0.4214 |
| 0.550                       | -0.3762 | 0.550                    | -0.4604 | 0.550                      | -0.4128 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4206 | 0.005 | 0.4568 | 0.005 | 0.4000 |
| 0.010 | 0.2065 | 0.010 | 0.1908 | 0.010 | 0.0827 |

Fight 13 Test point 5

Sweep, deg = 25.3 Mach = 0.71 hp, ft = 34600. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 176.4 Rnpu = 1723000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8885  | 0.000                    | 0.9305  | 0.000                      | 0.9197  |
| 0.005                       | 0.2221  | 0.005                    | 0.2672  | 0.005                      | 0.5207  |
| 0.010                       | -0.0288 | 0.010                    | 0.0393  | 0.010                      | 0.2519  |
| 0.020                       | -0.2626 | 0.020                    | -0.2056 | 0.020                      | -0.0533 |
| 0.040                       | -0.4294 | 0.040                    | -0.3600 | 0.040                      | -0.2295 |
| 0.060                       | -0.4817 | 0.060                    | -0.4165 | 0.060                      | -0.3180 |
| 0.080                       | -0.5049 | 0.080                    | -0.4534 | 0.080                      | -0.3389 |
| 0.100                       | -0.5158 | 0.100                    | -0.4654 | 0.100                      | -0.3665 |
| 0.125                       | -0.4782 | 0.125                    | -0.4684 | 0.125                      | -0.3769 |
| 0.150                       | -0.5498 | 0.150                    | -0.5092 | 0.150                      | -0.4066 |
| 0.175                       | -0.5498 | 0.175                    | -0.5333 | 0.175                      | -0.4330 |
| 0.200                       | -0.5931 | 0.200                    | -0.5525 | 0.200                      | -0.4267 |
| 0.250                       | -0.6053 | 0.250                    | -0.6041 | 0.250                      | -0.4774 |
| 0.300                       | -0.5881 | 0.300                    | -0.5900 | 0.300                      | -0.4767 |
| 0.350                       | -0.5512 | 0.350                    | -0.5543 | 0.350                      | -0.4913 |
| 0.400                       | -0.5071 | 0.400                    | -0.5594 | 0.400                      | -0.4782 |
| 0.450                       | -0.4492 | 0.450                    | -0.4951 | 0.450                      | -0.4521 |
| 0.500                       | -0.4388 | 0.500                    | -0.4920 | 0.500                      | -0.4229 |
| 0.550                       | -0.3801 | 0.550                    | -0.4732 | 0.550                      | -0.4154 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2660 | 0.005 | 0.2783  | 0.005 | 0.1971  |
| 0.010 | 0.0106 | 0.010 | -0.0445 | 0.010 | -0.1987 |

Flight 13 Test point 6

Sweep, deg = 25.1 Mach = 0.71 hp, ft = 34100. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 182.5 Rnpu = 1766000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8846  | 0.000                    | 0.9241  | 0.000                      | 0.9253  |
| 0.005                       | 0.0485  | 0.005                    | 0.0893  | 0.005                      | 0.3824  |
| 0.010                       | -0.2040 | 0.010                    | -0.1493 | 0.010                      | 0.0936  |
| 0.020                       | -0.4310 | 0.020                    | -0.3864 | 0.020                      | -0.2315 |
| 0.040                       | -0.5885 | 0.040                    | -0.5182 | 0.040                      | -0.3862 |
| 0.060                       | -0.6218 | 0.060                    | -0.5494 | 0.060                      | -0.4573 |
| 0.080                       | -0.6347 | 0.080                    | -0.5831 | 0.080                      | -0.4645 |
| 0.100                       | -0.6285 | 0.100                    | -0.5780 | 0.100                      | -0.4780 |
| 0.125                       | -0.5687 | 0.125                    | -0.5771 | 0.125                      | -0.4826 |
| 0.150                       | -0.6513 | 0.150                    | -0.6069 | 0.150                      | -0.5073 |
| 0.175                       | -0.6391 | 0.175                    | -0.6343 | 0.175                      | -0.5238 |
| 0.200                       | -0.6819 | 0.200                    | -0.6454 | 0.200                      | -0.5161 |
| 0.250                       | -0.6840 | 0.250                    | -0.6864 | 0.250                      | -0.5565 |
| 0.300                       | -0.6519 | 0.300                    | -0.6582 | 0.300                      | -0.5378 |
| 0.350                       | -0.6072 | 0.350                    | -0.6097 | 0.350                      | -0.5518 |
| 0.400                       | -0.5497 | 0.400                    | -0.6059 | 0.400                      | -0.5225 |
| 0.450                       | -0.4831 | 0.450                    | -0.5315 | 0.450                      | -0.4905 |
| 0.500                       | -0.4690 | 0.500                    | -0.5186 | 0.500                      | -0.4461 |
| 0.550                       | -0.3996 | 0.550                    | -0.4931 | 0.550                      | -0.4367 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4105 | 0.005 | 0.4308 | 0.005 | 0.3611 |
| 0.010 | 0.1773 | 0.010 | 0.1309 | 0.010 | 0.0066 |

Fight 13 Test point 7

Sweep, deg = 20.0 Mach = 0.71 hp, ft = 34400. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 178.2 Rnpu = 1738000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9598  | 0.000                    | 1.0002  | 0.000                      | 1.0068  |
| 0.005                       | 0.1299  | 0.005                    | 0.1839  | 0.005                      | 0.4814  |
| 0.010                       | -0.1474 | 0.010                    | -0.0690 | 0.010                      | 0.1827  |
| 0.020                       | -0.4000 | 0.020                    | -0.3334 | 0.020                      | -0.1634 |
| 0.040                       | -0.5749 | 0.040                    | -0.4843 | 0.040                      | -0.3378 |
| 0.060                       | -0.6167 | 0.060                    | -0.5371 | 0.060                      | -0.4262 |
| 0.080                       | -0.6368 | 0.080                    | -0.5749 | 0.080                      | -0.4480 |
| 0.100                       | -0.6470 | 0.100                    | -0.5844 | 0.100                      | -0.4659 |
| 0.125                       | -0.5885 | 0.125                    | -0.5831 | 0.125                      | -0.4728 |
| 0.150                       | -0.6848 | 0.150                    | -0.6236 | 0.150                      | -0.5111 |
| 0.175                       | -0.6704 | 0.175                    | -0.6543 | 0.175                      | -0.5265 |
| 0.200                       | -0.7242 | 0.200                    | -0.6747 | 0.200                      | -0.5301 |
| 0.250                       | -0.7221 | 0.250                    | -0.7190 | 0.250                      | -0.5764 |
| 0.300                       | -0.6930 | 0.300                    | -0.7114 | 0.300                      | -0.5729 |
| 0.350                       | -0.6454 | 0.350                    | -0.6522 | 0.350                      | -0.5856 |
| 0.400                       | -0.5741 | 0.400                    | -0.6469 | 0.400                      | -0.5472 |
| 0.450                       | -0.5122 | 0.450                    | -0.5554 | 0.450                      | -0.5196 |
| 0.500                       | -0.4878 | 0.500                    | -0.5502 | 0.500                      | -0.4701 |
| 0.550                       | -0.4149 | 0.550                    | -0.5201 | 0.550                      | -0.4524 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4144 | 0.005 | 0.4197 | 0.005 | 0.3384  |
| 0.010 | 0.1526 | 0.010 | 0.0944 | 0.010 | -0.0626 |

Flight 13 Test point 8

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 34300. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 174.8 Rnpu = 1720000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9305  | 0.000                    | 0.9652  | 0.000                      | 0.9812  |
| 0.005                       | -0.0900 | 0.005                    | -0.0311 | 0.005                      | 0.3101  |
| 0.010                       | -0.3724 | 0.010                    | -0.2940 | 0.010                      | -0.0185 |
| 0.020                       | -0.6158 | 0.020                    | -0.5432 | 0.020                      | -0.3709 |
| 0.040                       | -0.7774 | 0.040                    | -0.6881 | 0.040                      | -0.5173 |
| 0.060                       | -0.7886 | 0.060                    | -0.7042 | 0.060                      | -0.5761 |
| 0.080                       | -0.7917 | 0.080                    | -0.7438 | 0.080                      | -0.5881 |
| 0.100                       | -0.7792 | 0.100                    | -0.7195 | 0.100                      | -0.5917 |
| 0.125                       | -0.6898 | 0.125                    | -0.7019 | 0.125                      | -0.5827 |
| 0.150                       | -0.7812 | 0.150                    | -0.7243 | 0.150                      | -0.6069 |
| 0.175                       | -0.7578 | 0.175                    | -0.7560 | 0.175                      | -0.6185 |
| 0.200                       | -0.8123 | 0.200                    | -0.7615 | 0.200                      | -0.6102 |
| 0.250                       | -0.7843 | 0.250                    | -0.8001 | 0.250                      | -0.6379 |
| 0.300                       | -0.7480 | 0.300                    | -0.7752 | 0.300                      | -0.6349 |
| 0.350                       | -0.6784 | 0.350                    | -0.6948 | 0.350                      | -0.6303 |
| 0.400                       | -0.6104 | 0.400                    | -0.6703 | 0.400                      | -0.5854 |
| 0.450                       | -0.5418 | 0.450                    | -0.5918 | 0.450                      | -0.5397 |
| 0.500                       | -0.5062 | 0.500                    | -0.5726 | 0.500                      | -0.4906 |
| 0.550                       | -0.4254 | 0.550                    | -0.5391 | 0.550                      | -0.4684 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5602 | 0.005 | 0.5711 | 0.005 | 0.5028 |
| 0.010 | 0.3222 | 0.010 | 0.2741 | 0.010 | 0.1491 |

Fight 13 Test point 9

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 34300. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 202.2 Rnpu = 1867000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9747  | 0.000                    | 1.0128  | 0.000                      | 1.0091  |
| 0.005                       | 0.2894  | 0.005                    | 0.3225  | 0.005                      | 0.5709  |
| 0.010                       | -0.0002 | 0.010                    | 0.0678  | 0.010                      | 0.2895  |
| 0.020                       | -0.2546 | 0.020                    | -0.1999 | 0.020                      | -0.0485 |
| 0.040                       | -0.4679 | 0.040                    | -0.3769 | 0.040                      | -0.2510 |
| 0.060                       | -0.5363 | 0.060                    | -0.4473 | 0.060                      | -0.3577 |
| 0.080                       | -0.5734 | 0.080                    | -0.5262 | 0.080                      | -0.3980 |
| 0.100                       | -0.6047 | 0.100                    | -0.5307 | 0.100                      | -0.4302 |
| 0.125                       | -0.5667 | 0.125                    | -0.5390 | 0.125                      | -0.4473 |
| 0.150                       | -0.6657 | 0.150                    | -0.5953 | 0.150                      | -0.4908 |
| 0.175                       | -0.6349 | 0.175                    | -0.6718 | 0.175                      | -0.5305 |
| 0.200                       | -0.7519 | 0.200                    | -0.6685 | 0.200                      | -0.5426 |
| 0.250                       | -0.8082 | 0.250                    | -0.8006 | 0.250                      | -0.6136 |
| 0.300                       | -0.7116 | 0.300                    | -0.8029 | 0.300                      | -0.6290 |
| 0.350                       | -0.7156 | 0.350                    | -0.7875 | 0.350                      | -0.6486 |
| 0.400                       | -0.6082 | 0.400                    | -0.6739 | 0.400                      | -0.5989 |
| 0.450                       | -0.5331 | 0.450                    | -0.5874 | 0.450                      | -0.5633 |
| 0.500                       | -0.5009 | 0.500                    | -0.5787 | 0.500                      | -0.4955 |
| 0.550                       | -0.4238 | 0.550                    | -0.5447 | 0.550                      | -0.4558 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3385 | 0.005 | 0.3422  | 0.005 | 0.2717  |
| 0.010 | 0.0627 | 0.010 | -0.0084 | 0.010 | -0.1483 |

Flight 13 Test point 10

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 35700. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 191.9 Rnpu = 1781000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9709  | 0.000                    | 1.0075  | 0.000                      | 1.0106  |
| 0.005                       | 0.1017  | 0.005                    | 0.1493  | 0.005                      | 0.4324  |
| 0.010                       | -0.1718 | 0.010                    | -0.1056 | 0.010                      | 0.1219  |
| 0.020                       | -0.4335 | 0.020                    | -0.3767 | 0.020                      | -0.2383 |
| 0.040                       | -0.6479 | 0.040                    | -0.5495 | 0.040                      | -0.4207 |
| 0.060                       | -0.7180 | 0.060                    | -0.5841 | 0.060                      | -0.5232 |
| 0.080                       | -0.7148 | 0.080                    | -0.6684 | 0.080                      | -0.5497 |
| 0.100                       | -0.7236 | 0.100                    | -0.7783 | 0.100                      | -0.5762 |
| 0.125                       | -0.7087 | 0.125                    | -0.6251 | 0.125                      | -0.5787 |
| 0.150                       | -0.7758 | 0.150                    | -0.6814 | 0.150                      | -0.6169 |
| 0.175                       | -0.7715 | 0.175                    | -0.7421 | 0.175                      | -0.6541 |
| 0.200                       | -0.8097 | 0.200                    | -0.8171 | 0.200                      | -0.6832 |
| 0.250                       | -0.9726 | 0.250                    | -0.9089 | 0.250                      | -0.7312 |
| 0.300                       | -1.0018 | 0.300                    | -0.9517 | 0.300                      | -0.7667 |
| 0.350                       | -0.9527 | 0.350                    | -0.9782 | 0.350                      | -0.8223 |
| 0.400                       | -0.6403 | 0.400                    | -1.0015 | 0.400                      | -0.7492 |
| 0.450                       | -0.5218 | 0.450                    | -0.5122 | 0.450                      | -0.5347 |
| 0.500                       | -0.5029 | 0.500                    | -0.5116 | 0.500                      | -0.5127 |
| 0.550                       | -0.4308 | 0.550                    | -0.5246 | 0.550                      | -0.4677 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4924 | 0.005 | 0.5037 | 0.005 | 0.4413 |
| 0.010 | 0.2353 | 0.010 | 0.1871 | 0.010 | 0.0698 |

Flight 13 Test point 11

Sweep, deg = 25.6 Mach = 0.75 hp, ft = 34500. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 202.7 Rnpu = 1865000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8974  | 0.000                    | 0.9321  | 0.000                      | 0.9282  |
| 0.005                       | 0.2215  | 0.005                    | 0.2489  | 0.005                      | 0.4986  |
| 0.010                       | -0.0314 | 0.010                    | 0.0261  | 0.010                      | 0.2277  |
| 0.020                       | -0.2670 | 0.020                    | -0.2302 | 0.020                      | -0.0879 |
| 0.040                       | -0.4561 | 0.040                    | -0.3938 | 0.040                      | -0.2732 |
| 0.060                       | -0.5118 | 0.060                    | -0.4530 | 0.060                      | -0.3659 |
| 0.080                       | -0.5527 | 0.080                    | -0.5132 | 0.080                      | -0.4037 |
| 0.100                       | -0.5688 | 0.100                    | -0.5170 | 0.100                      | -0.4258 |
| 0.125                       | -0.5296 | 0.125                    | -0.5193 | 0.125                      | -0.4377 |
| 0.150                       | -0.6091 | 0.150                    | -0.5733 | 0.150                      | -0.4759 |
| 0.175                       | -0.6194 | 0.175                    | -0.6049 | 0.175                      | -0.5093 |
| 0.200                       | -0.7367 | 0.200                    | -0.6295 | 0.200                      | -0.5030 |
| 0.250                       | -0.8919 | 0.250                    | -0.7257 | 0.250                      | -0.5678 |
| 0.300                       | -0.6970 | 0.300                    | -0.6978 | 0.300                      | -0.5650 |
| 0.350                       | -0.6398 | 0.350                    | -0.6451 | 0.350                      | -0.5787 |
| 0.400                       | -0.5680 | 0.400                    | -0.6345 | 0.400                      | -0.5382 |
| 0.450                       | -0.4921 | 0.450                    | -0.5520 | 0.450                      | -0.5049 |
| 0.500                       | -0.4742 | 0.500                    | -0.5400 | 0.500                      | -0.4558 |
| 0.550                       | -0.4084 | 0.550                    | -0.5087 | 0.550                      | -0.4407 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3037 | 0.005 | 0.3152  | 0.005 | 0.2487  |
| 0.010 | 0.0506 | 0.010 | -0.0190 | 0.010 | -0.1333 |



Fight 13 Test point 12

Sweep, deg = 25.7 Mach = 0.75 hp, ft = 34800. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 200.3 R<sub>pu</sub> = 1847000.

Upper surface

| BL 200.8<br>Inboard station |                | BL 260<br>Middle station |                | BL 320<br>Outboard station |                |
|-----------------------------|----------------|--------------------------|----------------|----------------------------|----------------|
| x/c                         | C <sub>p</sub> | x/c                      | C <sub>p</sub> | x/c                        | C <sub>p</sub> |
| 0.000                       | 0.8849         | 0.000                    | 0.9233         | 0.000                      | 0.9333         |
| 0.005                       | 0.0841         | 0.005                    | 0.1141         | 0.005                      | 0.3859         |
| 0.010                       | -0.1767        | 0.010                    | -0.1238        | 0.010                      | 0.0984         |
| 0.020                       | -0.4122        | 0.020                    | -0.3781        | 0.020                      | -0.2373        |
| 0.040                       | -0.5961        | 0.040                    | -0.5191        | 0.040                      | -0.4040        |
| 0.060                       | -0.6323        | 0.060                    | -0.5641        | 0.060                      | -0.4920        |
| 0.080                       | -0.6505        | 0.080                    | -0.6722        | 0.080                      | -0.5149        |
| 0.100                       | -0.7164        | 0.100                    | -0.6216        | 0.100                      | -0.5354        |
| 0.125                       | -0.6037        | 0.125                    | -0.6047        | 0.125                      | -0.5341        |
| 0.150                       | -0.6928        | 0.150                    | -0.6423        | 0.150                      | -0.5693        |
| 0.175                       | -0.6564        | 0.175                    | -0.7324        | 0.175                      | -0.5995        |
| 0.200                       | -0.7795        | 0.200                    | -0.7870        | 0.200                      | -0.5971        |
| 0.250                       | -0.8188        | 0.250                    | -0.8278        | 0.250                      | -0.6418        |
| 0.300                       | -0.6912        | 0.300                    | -0.8342        | 0.300                      | -0.6324        |
| 0.350                       | -0.6936        | 0.350                    | -0.6818        | 0.350                      | -0.6348        |
| 0.400                       | -0.5947        | 0.400                    | -0.6513        | 0.400                      | -0.5782        |
| 0.450                       | -0.5190        | 0.450                    | -0.5787        | 0.450                      | -0.5312        |
| 0.500                       | -0.4900        | 0.500                    | -0.5570        | 0.500                      | -0.4785        |
| 0.550                       | -0.4205        | 0.550                    | -0.5241        | 0.550                      | -0.4515        |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4252 | 0.005 | 0.4361 | 0.005 | 0.3847 |
| 0.010 | 0.1812 | 0.010 | 0.1514 | 0.010 | 0.0345 |

Fight 13 Test point 13

Sweep, deg = 30.4 Mach = 0.76 hp, ft = 35000. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 199.3 Rnpu = 1837000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8076  | 0.000                    | 0.8464  | 0.000                      | 0.8489  |
| 0.005                       | 0.1976  | 0.005                    | 0.2192  | 0.005                      | 0.4516  |
| 0.010                       | -0.0368 | 0.010                    | 0.0117  | 0.010                      | 0.2030  |
| 0.020                       | -0.2503 | 0.020                    | -0.2171 | 0.020                      | -0.0911 |
| 0.040                       | -0.4129 | 0.040                    | -0.3599 | 0.040                      | -0.2492 |
| 0.060                       | -0.4632 | 0.060                    | -0.4261 | 0.060                      | -0.3279 |
| 0.080                       | -0.4895 | 0.080                    | -0.4575 | 0.080                      | -0.3607 |
| 0.100                       | -0.4929 | 0.100                    | -0.4609 | 0.100                      | -0.3807 |
| 0.125                       | -0.4690 | 0.125                    | -0.4620 | 0.125                      | -0.3825 |
| 0.150                       | -0.5481 | 0.150                    | -0.5092 | 0.150                      | -0.4148 |
| 0.175                       | -0.5427 | 0.175                    | -0.5311 | 0.175                      | -0.4501 |
| 0.200                       | -0.5877 | 0.200                    | -0.5504 | 0.200                      | -0.4376 |
| 0.250                       | -0.6019 | 0.250                    | -0.6053 | 0.250                      | -0.4896 |
| 0.300                       | -0.5881 | 0.300                    | -0.5916 | 0.300                      | -0.4916 |
| 0.350                       | -0.5601 | 0.350                    | -0.5536 | 0.350                      | -0.5037 |
| 0.400                       | -0.5059 | 0.400                    | -0.5518 | 0.400                      | -0.4828 |
| 0.450                       | -0.4494 | 0.450                    | -0.4980 | 0.450                      | -0.4513 |
| 0.500                       | -0.4308 | 0.500                    | -0.4814 | 0.500                      | -0.4101 |
| 0.550                       | -0.3734 | 0.550                    | -0.4602 | 0.550                      | -0.4055 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2437 | 0.005 | 0.2555  | 0.005 | 0.1987  |
| 0.010 | 0.0093 | 0.010 | -0.0320 | 0.010 | -0.1579 |

1 sq. inch.....6.452 sq. centimeters  
 1 sq. meter.....10.764 sq. feet  
 1 sq. foot.....0.09290 sq. meters  
 1 sq. meter.....1.196 sq. yards  
 1 sq. yard.....0.836 sq. meters  
 1 sq. kilometer.....0.386 sq. mile  
 Sweep, deg = 80.54  
 Angle of sideslip, deg = -0.1

1 imperial gal. (liquid).....4.546 liters  
 1 liter (liquid).....0.264 US gallon  
 1 liter (liquid)...0.220 Imperial gal.  
 METRIC EQUIVALENTS FOR WEIGHT  
 1 gram.....0.03527 ounce  
 1 ounce.....28.35 grams  
 1 kilogram.....2.2046 pounds  
 1 pound.....0.4536 kilograms  
 1 metric ton....0.98421 English ton  
 1 English ton.....1.016 metric ton

Upper surface

| BL 200.8        |         | BL 260         |         | BL 320           |         |
|-----------------|---------|----------------|---------|------------------|---------|
| Inboard station |         | Middle station |         | Outboard station |         |
| x/c             | Cp      | x/c            | Cp      | x/c              | Cp      |
| 0.000           | 0.8042  | 0.000          | 0.8303  | 0.000            | 0.8371  |
| 0.005           | 0.0261  | 0.005          | 0.0482  | 0.005            | 0.3111  |
| 0.010           | -0.2054 | 0.010          | -0.1728 | 0.010            | 0.0309  |
| 0.020           | -0.4213 | 0.020          | -0.3919 | 0.020            | -0.2669 |
| 0.040           | -0.5678 | 0.040          | -0.5150 | 0.040            | -0.4085 |
| 0.060           | -0.5933 | 0.060          | -0.5568 | 0.060            | -0.4699 |
| 0.080           | -0.6172 | 0.080          | -0.6253 | 0.080            | -0.4843 |
| 0.100           | -0.6034 | 0.100          | -0.5696 | 0.100            | -0.4916 |
| 0.125           | -0.5430 | 0.125          | -0.5601 | 0.125            | -0.4899 |
| 0.150           | -0.6232 | 0.150          | -0.6083 | 0.150            | -0.5078 |
| 0.175           | -0.6349 | 0.175          | -0.6208 | 0.175            | -0.5480 |
| 0.200           | -0.6439 | 0.200          | -0.6364 | 0.200            | -0.5271 |
| 0.250           | -0.6692 | 0.250          | -0.7157 | 0.250            | -0.5567 |
| 0.300           | -0.6397 | 0.300          | -0.6606 | 0.300            | -0.5465 |
| 0.350           | -0.6003 | 0.350          | -0.5976 | 0.350            | -0.5492 |
| 0.400           | -0.5379 | 0.400          | -0.5891 | 0.400            | -0.5095 |
| 0.450           | -0.4760 | 0.450          | -0.5210 | 0.450            | -0.4798 |
| 0.500           | -0.4522 | 0.500          | -0.5008 | 0.500            | -0.4340 |
| 0.550           | -0.3899 | 0.550          | -0.4789 | 0.550            | -0.4248 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3794 | 0.005 | 0.4104 | 0.005 | 0.3559 |
| 0.010 | 0.1604 | 0.010 | 0.1300 | 0.010 | 0.0365 |

Fight 13 Test point 15

Sweep, deg = 34.9 Mach = 0.75 hp, ft = 35500. Angle of attack, deg = -0.3  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 191.9 Rnpu = 1784000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7067  | 0.000                    | 0.7483  | 0.000                      | 0.7432  |
| 0.005                       | 0.2882  | 0.005                    | 0.3018  | 0.005                      | 0.5016  |
| 0.010                       | 0.0791  | 0.010                    | 0.1225  | 0.010                      | 0.2897  |
| 0.020                       | -0.1072 | 0.020                    | -0.0809 | 0.020                      | 0.0386  |
| 0.040                       | -0.2596 | 0.040                    | -0.2257 | 0.040                      | -0.1169 |
| 0.060                       | -0.3154 | 0.060                    | -0.2842 | 0.060                      | -0.1971 |
| 0.080                       | -0.3551 | 0.080                    | -0.3151 | 0.080                      | -0.2259 |
| 0.100                       | -0.3648 | 0.100                    | -0.3255 | 0.100                      | -0.2489 |
| 0.125                       | -0.3581 | 0.125                    | -0.3358 | 0.125                      | -0.2638 |
| 0.150                       | -0.4082 | 0.150                    | -0.3686 | 0.150                      | -0.2981 |
| 0.175                       | -0.4205 | 0.175                    | -0.3934 | 0.175                      | -0.3287 |
| 0.200                       | -0.4536 | 0.200                    | -0.4184 | 0.200                      | -0.3235 |
| 0.250                       | -0.4721 | 0.250                    | -0.4583 | 0.250                      | -0.3704 |
| 0.300                       | -0.4548 | 0.300                    | -0.4585 | 0.300                      | -0.3718 |
| 0.350                       | -0.4440 | 0.350                    | -0.4252 | 0.350                      | -0.3881 |
| 0.400                       | -0.4107 | 0.400                    | -0.4456 | 0.400                      | -0.3809 |
| 0.450                       | -0.3700 | 0.450                    | -0.3964 | 0.450                      | -0.3675 |
| 0.500                       | -0.3612 | 0.500                    | -0.4001 | 0.500                      | -0.3423 |
| 0.550                       | -0.3206 | 0.550                    | -0.3911 | 0.550                      | -0.3551 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.0697  | 0.005 | 0.0945  | 0.005 | 0.0148  |
| 0.010 | -0.1610 | 0.010 | -0.2069 | 0.010 | -0.3443 |

Flight 13 Test point 16

Sweep, deg = 34.9 Mach = 0.75 hp, ft = 35100. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 197.1 Rnpu = 1821000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7106  | 0.000                    | 0.7433  | 0.000                      | 0.7517  |
| 0.005                       | 0.0196  | 0.005                    | 0.0247  | 0.005                      | 0.2715  |
| 0.010                       | -0.1932 | 0.010                    | -0.1626 | 0.010                      | 0.0222  |
| 0.020                       | -0.3754 | 0.020                    | -0.3631 | 0.020                      | -0.2441 |
| 0.040                       | -0.4965 | 0.040                    | -0.4688 | 0.040                      | -0.3635 |
| 0.060                       | -0.5195 | 0.060                    | -0.5185 | 0.060                      | -0.4143 |
| 0.080                       | -0.5335 | 0.080                    | -0.5137 | 0.080                      | -0.4256 |
| 0.100                       | -0.5249 | 0.100                    | -0.5025 | 0.100                      | -0.4303 |
| 0.125                       | -0.4796 | 0.125                    | -0.4913 | 0.125                      | -0.4255 |
| 0.150                       | -0.5498 | 0.150                    | -0.5149 | 0.150                      | -0.4494 |
| 0.175                       | -0.5373 | 0.175                    | -0.5366 | 0.175                      | -0.4633 |
| 0.200                       | -0.5704 | 0.200                    | -0.5497 | 0.200                      | -0.4463 |
| 0.250                       | -0.5742 | 0.250                    | -0.5834 | 0.250                      | -0.4786 |
| 0.300                       | -0.5510 | 0.300                    | -0.5564 | 0.300                      | -0.4684 |
| 0.350                       | -0.5205 | 0.350                    | -0.5141 | 0.350                      | -0.4713 |
| 0.400                       | -0.4728 | 0.400                    | -0.5160 | 0.400                      | -0.4496 |
| 0.450                       | -0.4239 | 0.450                    | -0.4601 | 0.450                      | -0.4221 |
| 0.500                       | -0.4061 | 0.500                    | -0.4452 | 0.500                      | -0.3881 |
| 0.550                       | -0.3515 | 0.550                    | -0.4291 | 0.550                      | -0.3877 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3115 | 0.005 | 0.3532 | 0.005 | 0.3081 |
| 0.010 | 0.1093 | 0.010 | 0.1050 | 0.010 | 0.0119 |

Flight 13 Test point 17

Sweep, deg = 34.9 Mach = 0.80 hp, ft = 34900. Angle of attack, deg = 2.9  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 224.0 Rnpu = 1963000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.6524  | 0.000                    | 0.6531  | 0.000                      | 0.6627  |
| 0.005                       | -0.3015 | 0.005                    | -0.3305 | 0.005                      | -0.0677 |
| 0.010                       | -0.5193 | 0.010                    | -0.5398 | 0.010                      | -0.3641 |
| 0.020                       | -0.7076 | 0.020                    | -0.7306 | 0.020                      | -0.7086 |
| 0.040                       | -0.8177 | 0.040                    | -0.8836 | 0.040                      | -0.7739 |
| 0.060                       | -0.9346 | 0.060                    | -0.9197 | 0.060                      | -0.8465 |
| 0.080                       | -0.8839 | 0.080                    | -0.7656 | 0.080                      | -0.8688 |
| 0.100                       | -0.8284 | 0.100                    | -0.9240 | 0.100                      | -0.8752 |
| 0.125                       | -0.7347 | 0.125                    | -0.8423 | 0.125                      | -0.8217 |
| 0.150                       | -0.8355 | 0.150                    | -0.8549 | 0.150                      | -0.7686 |
| 0.175                       | -0.8063 | 0.175                    | -0.8232 | 0.175                      | -0.7829 |
| 0.200                       | -0.8463 | 0.200                    | -0.8555 | 0.200                      | -0.7838 |
| 0.250                       | -0.9380 | 0.250                    | -0.9237 | 0.250                      | -0.8161 |
| 0.300                       | -0.7355 | 0.300                    | -0.9287 | 0.300                      | -0.8241 |
| 0.350                       | -0.7532 | 0.350                    | -0.9466 | 0.350                      | -0.8559 |
| 0.400                       | -0.7429 | 0.400                    | -0.7553 | 0.400                      | -0.4360 |
| 0.450                       | -0.4956 | 0.450                    | -0.4690 | 0.450                      | -0.4169 |
| 0.500                       | -0.4487 | 0.500                    | -0.4516 | 0.500                      | -0.4013 |
| 0.550                       | -0.3846 | 0.550                    | -0.4349 | 0.550                      | -0.3997 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5305 | 0.005 | 0.5800 | 0.005 | 0.5656 |
| 0.010 | 0.3748 | 0.010 | 0.3865 | 0.010 | 0.3529 |

Flight 13 Test point 18

Sweep, deg = 34.9 Mach = 0.80 hp, ft = 35100. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 221.7 Rrho = 1946000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7263  | 0.000                    | 0.7567  | 0.000                      | 0.7602  |
| 0.005                       | 0.2086  | 0.005                    | 0.2227  | 0.005                      | 0.4197  |
| 0.010                       | 0.0058  | 0.010                    | 0.0356  | 0.010                      | 0.1992  |
| 0.020                       | -0.1889 | 0.020                    | -0.1670 | 0.020                      | -0.0677 |
| 0.040                       | -0.3453 | 0.040                    | -0.3061 | 0.040                      | -0.2162 |
| 0.060                       | -0.3921 | 0.060                    | -0.4001 | 0.060                      | -0.2915 |
| 0.080                       | -0.4376 | 0.080                    | -0.4132 | 0.080                      | -0.3230 |
| 0.100                       | -0.4402 | 0.100                    | -0.4114 | 0.100                      | -0.3427 |
| 0.125                       | -0.4149 | 0.125                    | -0.4232 | 0.125                      | -0.3584 |
| 0.150                       | -0.4908 | 0.150                    | -0.4715 | 0.150                      | -0.3888 |
| 0.175                       | -0.5265 | 0.175                    | -0.4813 | 0.175                      | -0.4268 |
| 0.200                       | -0.5248 | 0.200                    | -0.5066 | 0.200                      | -0.4115 |
| 0.250                       | -0.5552 | 0.250                    | -0.6111 | 0.250                      | -0.4673 |
| 0.300                       | -0.5736 | 0.300                    | -0.5365 | 0.300                      | -0.4621 |
| 0.350                       | -0.5396 | 0.350                    | -0.5162 | 0.350                      | -0.4857 |
| 0.400                       | -0.4908 | 0.400                    | -0.5228 | 0.400                      | -0.4536 |
| 0.450                       | -0.4307 | 0.450                    | -0.4731 | 0.450                      | -0.4223 |
| 0.500                       | -0.4103 | 0.500                    | -0.4506 | 0.500                      | -0.3848 |
| 0.550                       | -0.3541 | 0.550                    | -0.4295 | 0.550                      | -0.3822 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.1692  | 0.005 | 0.1976  | 0.005 | 0.1508  |
| 0.010 | -0.0526 | 0.010 | -0.0831 | 0.010 | -0.1785 |

Fight 13 Test point 19

Sweep, deg = 34.9 Mach = 0.80 hp, ft = 34800. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 227.3 Rnpu = 1985000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7211  | 0.000                    | 0.7463  | 0.000                      | 0.7547  |
| 0.005                       | 0.0475  | 0.005                    | 0.0501  | 0.005                      | 0.2764  |
| 0.010                       | -0.1595 | 0.010                    | -0.1440 | 0.010                      | 0.0239  |
| 0.020                       | -0.3557 | 0.020                    | -0.3454 | 0.020                      | -0.2547 |
| 0.040                       | -0.5003 | 0.040                    | -0.4507 | 0.040                      | -0.3856 |
| 0.060                       | -0.5036 | 0.060                    | -0.4973 | 0.060                      | -0.4461 |
| 0.080                       | -0.5562 | 0.080                    | -0.6552 | 0.080                      | -0.4623 |
| 0.100                       | -0.6311 | 0.100                    | -0.5753 | 0.100                      | -0.4748 |
| 0.125                       | -0.4740 | 0.125                    | -0.4822 | 0.125                      | -0.4766 |
| 0.150                       | -0.5368 | 0.150                    | -0.5625 | 0.150                      | -0.5112 |
| 0.175                       | -0.5756 | 0.175                    | -0.6480 | 0.175                      | -0.5235 |
| 0.200                       | -0.6613 | 0.200                    | -0.6278 | 0.200                      | -0.5138 |
| 0.250                       | -0.6630 | 0.250                    | -0.6659 | 0.250                      | -0.5678 |
| 0.300                       | -0.6458 | 0.300                    | -0.7078 | 0.300                      | -0.5746 |
| 0.350                       | -0.6192 | 0.350                    | -0.5941 | 0.350                      | -0.5350 |
| 0.400                       | -0.5288 | 0.400                    | -0.5425 | 0.400                      | -0.4888 |
| 0.450                       | -0.4786 | 0.450                    | -0.5089 | 0.450                      | -0.4524 |
| 0.500                       | -0.4310 | 0.500                    | -0.4813 | 0.500                      | -0.4100 |
| 0.550                       | -0.3702 | 0.550                    | -0.4501 | 0.550                      | -0.3967 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3140 | 0.005 | 0.3461 | 0.005 | 0.3166 |
| 0.010 | 0.1095 | 0.010 | 0.0999 | 0.010 | 0.0228 |



Fight 13 Test point 20

Sweep, deg = 30.7 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 2.4  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 224.4 Rrho = 1963000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7690  | 0.000                    | 0.7847  | 0.000                      | 0.7921  |
| 0.005                       | -0.1428 | 0.005                    | -0.1388 | 0.005                      | 0.1182  |
| 0.010                       | -0.3800 | 0.010                    | -0.3703 | 0.010                      | -0.1772 |
| 0.020                       | -0.5948 | 0.020                    | -0.5875 | 0.020                      | -0.5140 |
| 0.040                       | -0.7166 | 0.040                    | -0.7269 | 0.040                      | -0.6486 |
| 0.060                       | -0.8463 | 0.060                    | -0.7652 | 0.060                      | -0.7395 |
| 0.080                       | -0.8146 | 0.080                    | -0.6218 | 0.080                      | -0.7677 |
| 0.100                       | -0.8118 | 0.100                    | -0.8467 | 0.100                      | -0.7766 |
| 0.125                       | -0.7409 | 0.125                    | -0.7960 | 0.125                      | -0.7485 |
| 0.150                       | -0.8085 | 0.150                    | -0.8387 | 0.150                      | -0.7294 |
| 0.175                       | -0.7909 | 0.175                    | -0.8278 | 0.175                      | -0.7675 |
| 0.200                       | -0.8305 | 0.200                    | -0.8246 | 0.200                      | -0.7465 |
| 0.250                       | -0.9401 | 0.250                    | -0.9091 | 0.250                      | -0.8208 |
| 0.300                       | -0.9949 | 0.300                    | -0.9695 | 0.300                      | -0.8532 |
| 0.350                       | -0.9576 | 0.350                    | -0.9837 | 0.350                      | -0.9062 |
| 0.400                       | -0.7578 | 0.400                    | -1.0332 | 0.400                      | -0.9273 |
| 0.450                       | -0.7589 | 0.450                    | -1.0436 | 0.450                      | -0.9766 |
| 0.500                       | -0.4731 | 0.500                    | -0.6356 | 0.500                      | -0.5127 |
| 0.550                       | -0.3877 | 0.550                    | -0.4057 | 0.550                      | -0.3429 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5266 | 0.005 | 0.5618 | 0.005 | 0.5392 |
| 0.010 | 0.3362 | 0.010 | 0.3304 | 0.010 | 0.2757 |

Fight 13 Test point 21

Sweep, deg = 30.7 Mach = 0.80 hp, ft = 34200. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 233.7 R<sub>pu</sub> = 2027000.

Upper surface

| BL 200.8<br>Inboard station |                | BL 260<br>Middle station |                | BL 320<br>Outboard station |                |
|-----------------------------|----------------|--------------------------|----------------|----------------------------|----------------|
| x/c                         | C <sub>p</sub> | x/c                      | C <sub>p</sub> | x/c                        | C <sub>p</sub> |
| 0.000                       | 0.8114         | 0.000                    | 0.8432         | 0.000                      | 0.8277         |
| 0.005                       | 0.1496         | 0.005                    | 0.1657         | 0.005                      | 0.3855         |
| 0.010                       | -0.0830        | 0.010                    | -0.0472        | 0.010                      | 0.1242         |
| 0.020                       | -0.3007        | 0.020                    | -0.2736        | 0.020                      | -0.1762        |
| 0.040                       | -0.4740        | 0.040                    | -0.4083        | 0.040                      | -0.3395        |
| 0.060                       | -0.5116        | 0.060                    | -0.4614        | 0.060                      | -0.4297        |
| 0.080                       | -0.5140        | 0.080                    | -0.6089        | 0.080                      | -0.4633        |
| 0.100                       | -0.6227        | 0.100                    | -0.6336        | 0.100                      | -0.4784        |
| 0.125                       | -0.5594        | 0.125                    | -0.4545        | 0.125                      | -0.4952        |
| 0.150                       | -0.6041        | 0.150                    | -0.5574        | 0.150                      | -0.5138        |
| 0.175                       | -0.6229        | 0.175                    | -0.6271        | 0.175                      | -0.5856        |
| 0.200                       | -0.6697        | 0.200                    | -0.6776        | 0.200                      | -0.5779        |
| 0.250                       | -0.7062        | 0.250                    | -0.7609        | 0.250                      | -0.6246        |
| 0.300                       | -0.7394        | 0.300                    | -0.7739        | 0.300                      | -0.6661        |
| 0.350                       | -0.7325        | 0.350                    | -0.8154        | 0.350                      | -0.7328        |
| 0.400                       | -0.7137        | 0.400                    | -0.8691        | 0.400                      | -0.7595        |
| 0.450                       | -0.6454        | 0.450                    | -0.5288        | 0.450                      | -0.4065        |
| 0.500                       | -0.4474        | 0.500                    | -0.4569        | 0.500                      | -0.4035        |
| 0.550                       | -0.3845        | 0.550                    | -0.4574        | 0.550                      | -0.4074        |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3152 | 0.005 | 0.3385 | 0.005 | 0.3056  |
| 0.010 | 0.0830 | 0.010 | 0.0543 | 0.010 | -0.0280 |

Fight 13 Test point 22

Sweep, deg = 30.7 Mach = 0.80 hp, ft = 34700. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 226.6 Rnpu = 1981000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7936  | 0.000                    | 0.8251  | 0.000                      | 0.8279  |
| 0.005                       | 0.0122  | 0.005                    | 0.0231  | 0.005                      | 0.2623  |
| 0.010                       | -0.2241 | 0.010                    | -0.1989 | 0.010                      | -0.0169 |
| 0.020                       | -0.4417 | 0.020                    | -0.4283 | 0.020                      | -0.3385 |
| 0.040                       | -0.6908 | 0.040                    | -0.5556 | 0.040                      | -0.4817 |
| 0.060                       | -0.6753 | 0.060                    | -0.5402 | 0.060                      | -0.5850 |
| 0.080                       | -0.6313 | 0.080                    | -0.6644 | 0.080                      | -0.5866 |
| 0.100                       | -0.6641 | 0.100                    | -0.8364 | 0.100                      | -0.5908 |
| 0.125                       | -0.6374 | 0.125                    | -0.6813 | 0.125                      | -0.5740 |
| 0.150                       | -0.7130 | 0.150                    | -0.6698 | 0.150                      | -0.6251 |
| 0.175                       | -0.7068 | 0.175                    | -0.6623 | 0.175                      | -0.6590 |
| 0.200                       | -0.7477 | 0.200                    | -0.7295 | 0.200                      | -0.6663 |
| 0.250                       | -0.8405 | 0.250                    | -0.7930 | 0.250                      | -0.7331 |
| 0.300                       | -0.7275 | 0.300                    | -0.8471 | 0.300                      | -0.7609 |
| 0.350                       | -0.7623 | 0.350                    | -0.9027 | 0.350                      | -0.8132 |
| 0.400                       | -0.7447 | 0.400                    | -0.9499 | 0.400                      | -0.8392 |
| 0.450                       | -0.7038 | 0.450                    | -0.8423 | 0.450                      | -0.4576 |
| 0.500                       | -0.4733 | 0.500                    | -0.4460 | 0.500                      | -0.3640 |
| 0.550                       | -0.3953 | 0.550                    | -0.4368 | 0.550                      | -0.3972 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4222 | 0.005 | 0.4503 | 0.005 | 0.4212 |
| 0.010 | 0.2089 | 0.010 | 0.1960 | 0.010 | 0.1236 |

Fight 13 Test point 23

Sweep, deg = 25.1 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 225.3 Rnpu = 1969000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9056  | 0.000                    | 0.9336  | 0.000                      | 0.9321  |
| 0.005                       | 0.0913  | 0.005                    | 0.1271  | 0.005                      | 0.3714  |
| 0.010                       | -0.1612 | 0.010                    | -0.1198 | 0.010                      | 0.0793  |
| 0.020                       | -0.4037 | 0.020                    | -0.3641 | 0.020                      | -0.2620 |
| 0.040                       | -0.6538 | 0.040                    | -0.5358 | 0.040                      | -0.4349 |
| 0.060                       | -0.6162 | 0.060                    | -0.5169 | 0.060                      | -0.5684 |
| 0.080                       | -0.6920 | 0.080                    | -0.6155 | 0.080                      | -0.5738 |
| 0.100                       | -0.7071 | 0.100                    | -0.7833 | 0.100                      | -0.5943 |
| 0.125                       | -0.6728 | 0.125                    | -0.7387 | 0.125                      | -0.5821 |
| 0.150                       | -0.7472 | 0.150                    | -0.7123 | 0.150                      | -0.6068 |
| 0.175                       | -0.7538 | 0.175                    | -0.7109 | 0.175                      | -0.6509 |
| 0.200                       | -0.8304 | 0.200                    | -0.7255 | 0.200                      | -0.6572 |
| 0.250                       | -0.9242 | 0.250                    | -0.8434 | 0.250                      | -0.7559 |
| 0.300                       | -0.9748 | 0.300                    | -0.9247 | 0.300                      | -0.8095 |
| 0.350                       | -0.9479 | 0.350                    | -0.9455 | 0.350                      | -0.8778 |
| 0.400                       | -0.9544 | 0.400                    | -1.0310 | 0.400                      | -0.9087 |
| 0.450                       | -0.9656 | 0.450                    | -1.0389 | 0.450                      | -0.9691 |
| 0.500                       | -0.9956 | 0.500                    | -1.0675 | 0.500                      | -0.9893 |
| 0.550                       | -0.4314 | 0.550                    | -0.4671 | 0.550                      | -0.4296 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4779 | 0.005 | 0.4905 | 0.005 | 0.4521 |
| 0.010 | 0.2433 | 0.010 | 0.2063 | 0.010 | 0.1107 |

Fight 13 Test point 24

Sweep, deg = 24.9 Mach = 0.80 hp, ft = 34400. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 227.1 Rnpu = 1989000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9147  | 0.000                    | 0.9488  | 0.000                      | 0.9404  |
| 0.005                       | 0.2512  | 0.005                    | 0.2824  | 0.005                      | 0.5065  |
| 0.010                       | 0.0001  | 0.010                    | 0.0479  | 0.010                      | 0.2328  |
| 0.020                       | -0.2421 | 0.020                    | -0.2005 | 0.020                      | -0.0888 |
| 0.040                       | -0.4451 | 0.040                    | -0.3692 | 0.040                      | -0.2746 |
| 0.060                       | -0.5084 | 0.060                    | -0.4342 | 0.060                      | -0.3791 |
| 0.080                       | -0.5384 | 0.080                    | -0.5489 | 0.080                      | -0.4252 |
| 0.100                       | -0.6070 | 0.100                    | -0.5716 | 0.100                      | -0.4505 |
| 0.125                       | -0.5674 | 0.125                    | -0.4961 | 0.125                      | -0.4757 |
| 0.150                       | -0.6407 | 0.150                    | -0.5543 | 0.150                      | -0.5156 |
| 0.175                       | -0.6525 | 0.175                    | -0.6288 | 0.175                      | -0.5637 |
| 0.200                       | -0.6977 | 0.200                    | -0.7110 | 0.200                      | -0.5951 |
| 0.250                       | -0.8181 | 0.250                    | -0.7745 | 0.250                      | -0.6531 |
| 0.300                       | -0.8796 | 0.300                    | -0.8057 | 0.300                      | -0.7026 |
| 0.350                       | -0.8538 | 0.350                    | -0.8866 | 0.350                      | -0.7829 |
| 0.400                       | -0.7007 | 0.400                    | -0.9443 | 0.400                      | -0.8088 |
| 0.450                       | -0.7342 | 0.450                    | -0.9531 | 0.450                      | -0.8540 |
| 0.500                       | -0.5088 | 0.500                    | -0.9660 | 0.500                      | -0.8273 |
| 0.550                       | -0.3918 | 0.550                    | -0.4204 | 0.550                      | -0.3604 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3297 | 0.005 | 0.3405 | 0.005 | 0.2911  |
| 0.010 | 0.0722 | 0.010 | 0.0235 | 0.010 | -0.0888 |

Flight 13 Test point 25

Sweep, deg = 24.9 Mach = 0.80 hp, ft = 34900. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 224.4 Rrho = 1966000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9058  | 0.000                    | 0.9415  | 0.000                      | 0.9390  |
| 0.005                       | 0.1142  | 0.005                    | 0.1461  | 0.005                      | 0.3916  |
| 0.010                       | -0.1417 | 0.010                    | -0.0968 | 0.010                      | 0.1003  |
| 0.020                       | -0.3826 | 0.020                    | -0.3508 | 0.020                      | -0.2372 |
| 0.040                       | -0.6442 | 0.040                    | -0.5122 | 0.040                      | -0.4120 |
| 0.060                       | -0.6386 | 0.060                    | -0.5169 | 0.060                      | -0.5177 |
| 0.080                       | -0.6534 | 0.080                    | -0.6166 | 0.080                      | -0.5614 |
| 0.100                       | -0.6938 | 0.100                    | -0.7779 | 0.100                      | -0.5687 |
| 0.125                       | -0.6541 | 0.125                    | -0.7178 | 0.125                      | -0.5623 |
| 0.150                       | -0.7431 | 0.150                    | -0.6851 | 0.150                      | -0.6113 |
| 0.175                       | -0.7465 | 0.175                    | -0.6902 | 0.175                      | -0.6403 |
| 0.200                       | -0.8134 | 0.200                    | -0.7256 | 0.200                      | -0.6484 |
| 0.250                       | -0.9230 | 0.250                    | -0.8419 | 0.250                      | -0.7466 |
| 0.300                       | -0.9621 | 0.300                    | -0.9217 | 0.300                      | -0.7994 |
| 0.350                       | -0.9540 | 0.350                    | -0.9371 | 0.350                      | -0.8653 |
| 0.400                       | -0.9443 | 0.400                    | -1.0248 | 0.400                      | -0.9036 |
| 0.450                       | -0.9557 | 0.450                    | -1.0338 | 0.450                      | -0.9556 |
| 0.500                       | -0.7189 | 0.500                    | -1.0815 | 0.500                      | -0.9729 |
| 0.550                       | -0.3931 | 0.550                    | -0.4998 | 0.550                      | -0.4754 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4584 | 0.005 | 0.4714 | 0.005 | 0.4261 |
| 0.010 | 0.2193 | 0.010 | 0.1768 | 0.010 | 0.0833 |

Fight 13 Test point 26

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 34900. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 223.6 Rnpu = 1961000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9800  | 0.000                    | 1.0143  | 0.000                      | 1.0156  |
| 0.005                       | 0.1369  | 0.005                    | 0.1902  | 0.005                      | 0.4443  |
| 0.010                       | -0.1353 | 0.010                    | -0.0722 | 0.010                      | 0.1437  |
| 0.020                       | -0.3865 | 0.020                    | -0.3311 | 0.020                      | -0.2153 |
| 0.040                       | -0.6278 | 0.040                    | -0.5225 | 0.040                      | -0.4052 |
| 0.060                       | -0.6397 | 0.060                    | -0.5206 | 0.060                      | -0.5272 |
| 0.080                       | -0.7319 | 0.080                    | -0.5922 | 0.080                      | -0.5681 |
| 0.100                       | -0.7029 | 0.100                    | -0.7435 | 0.100                      | -0.5875 |
| 0.125                       | -0.6860 | 0.125                    | -0.7557 | 0.125                      | -0.5720 |
| 0.150                       | -0.7804 | 0.150                    | -0.7178 | 0.150                      | -0.5987 |
| 0.175                       | -0.7910 | 0.175                    | -0.7378 | 0.175                      | -0.6566 |
| 0.200                       | -0.8540 | 0.200                    | -0.7485 | 0.200                      | -0.6660 |
| 0.250                       | -0.9404 | 0.250                    | -0.8840 | 0.250                      | -0.7637 |
| 0.300                       | -1.0382 | 0.300                    | -0.9211 | 0.300                      | -0.8128 |
| 0.350                       | -1.0344 | 0.350                    | -0.9650 | 0.350                      | -0.8964 |
| 0.400                       | -1.0356 | 0.400                    | -1.0795 | 0.400                      | -0.9307 |
| 0.450                       | -1.0306 | 0.450                    | -1.0812 | 0.450                      | -0.9824 |
| 0.500                       | -0.6487 | 0.500                    | -0.5950 | 0.500                      | -0.9668 |
| 0.550                       | -0.4360 | 0.550                    | -0.4561 | 0.550                      | -0.5578 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5247 | 0.005 | 0.5283 | 0.005 | 0.4819 |
| 0.010 | 0.2773 | 0.010 | 0.2211 | 0.010 | 0.1146 |

Fight 13 Test point 27

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 34700. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 226.6 Rnpu = 1982000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9866  | 0.000                    | 1.0182  | 0.000                      | 1.0174  |
| 0.005                       | 0.3409  | 0.005                    | 0.3865  | 0.005                      | 0.6059  |
| 0.010                       | 0.0759  | 0.010                    | 0.1433  | 0.010                      | 0.3359  |
| 0.020                       | -0.1760 | 0.020                    | -0.1266 | 0.020                      | -0.0034 |
| 0.040                       | -0.3944 | 0.040                    | -0.3116 | 0.040                      | -0.2111 |
| 0.060                       | -0.4747 | 0.060                    | -0.3846 | 0.060                      | -0.3212 |
| 0.080                       | -0.5255 | 0.080                    | -0.4968 | 0.080                      | -0.3768 |
| 0.100                       | -0.5706 | 0.100                    | -0.5099 | 0.100                      | -0.4128 |
| 0.125                       | -0.5771 | 0.125                    | -0.4929 | 0.125                      | -0.4356 |
| 0.150                       | -0.6325 | 0.150                    | -0.5397 | 0.150                      | -0.4820 |
| 0.175                       | -0.6457 | 0.175                    | -0.5934 | 0.175                      | -0.5316 |
| 0.200                       | -0.6839 | 0.200                    | -0.6764 | 0.200                      | -0.5736 |
| 0.250                       | -0.8550 | 0.250                    | -0.7726 | 0.250                      | -0.6548 |
| 0.300                       | -0.8879 | 0.300                    | -0.8466 | 0.300                      | -0.7048 |
| 0.350                       | -0.9017 | 0.350                    | -0.8734 | 0.350                      | -0.7855 |
| 0.400                       | -0.9180 | 0.400                    | -0.9545 | 0.400                      | -0.8192 |
| 0.450                       | -0.9305 | 0.450                    | -0.9787 | 0.450                      | -0.8825 |
| 0.500                       | -1.0135 | 0.500                    | -1.0315 | 0.500                      | -0.9028 |
| 0.550                       | -0.4125 | 0.550                    | -0.6897 | 0.550                      | -0.8636 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3456 | 0.005 | 0.3431  | 0.005 | 0.2843  |
| 0.010 | 0.0696 | 0.010 | -0.0031 | 0.010 | -0.1268 |



Fight 13 Test point 28

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 35100. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 222.8 Rnpu = 1953000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9872  | 0.000                    | 1.0188  | 0.000                      | 1.0156  |
| 0.005                       | 0.1862  | 0.005                    | 0.2345  | 0.005                      | 0.4875  |
| 0.010                       | -0.0875 | 0.010                    | -0.0226 | 0.010                      | 0.1878  |
| 0.020                       | -0.3385 | 0.020                    | -0.2829 | 0.020                      | -0.1662 |
| 0.040                       | -0.5990 | 0.040                    | -0.4653 | 0.040                      | -0.3528 |
| 0.060                       | -0.6124 | 0.060                    | -0.4847 | 0.060                      | -0.4664 |
| 0.080                       | -0.6721 | 0.080                    | -0.5731 | 0.080                      | -0.5131 |
| 0.100                       | -0.6908 | 0.100                    | -0.7254 | 0.100                      | -0.5423 |
| 0.125                       | -0.6587 | 0.125                    | -0.7034 | 0.125                      | -0.5293 |
| 0.150                       | -0.7447 | 0.150                    | -0.6549 | 0.150                      | -0.5848 |
| 0.175                       | -0.7647 | 0.175                    | -0.6836 | 0.175                      | -0.6218 |
| 0.200                       | -0.8276 | 0.200                    | -0.6962 | 0.200                      | -0.6386 |
| 0.250                       | -0.9135 | 0.250                    | -0.8450 | 0.250                      | -0.7323 |
| 0.300                       | -1.0087 | 0.300                    | -0.9101 | 0.300                      | -0.7925 |
| 0.350                       | -1.0044 | 0.350                    | -0.9431 | 0.350                      | -0.8660 |
| 0.400                       | -1.0020 | 0.400                    | -1.0608 | 0.400                      | -0.9095 |
| 0.450                       | -0.9870 | 0.450                    | -1.0585 | 0.450                      | -0.9602 |
| 0.500                       | -0.9226 | 0.500                    | -0.7135 | 0.500                      | -0.9526 |
| 0.550                       | -0.4276 | 0.550                    | -0.4597 | 0.550                      | -0.6502 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4873 | 0.005 | 0.4865 | 0.005 | 0.4350 |
| 0.010 | 0.2392 | 0.010 | 0.1743 | 0.010 | 0.0641 |

Fight 13 Test point 29

Sweep, deg = 30.4 Mach = 0.78 hp, ft = 34200. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 218.2 Rnpu = 1940000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8747  | 0.000                    | 0.8983  | 0.000                      | 0.9011  |
| 0.005                       | 0.0081  | 0.005                    | 0.0197  | 0.005                      | 0.2745  |
| 0.010                       | -0.2545 | 0.010                    | -0.2214 | 0.010                      | -0.0306 |
| 0.020                       | -0.4384 | 0.020                    | -0.4683 | 0.020                      | -0.3790 |
| 0.040                       | -0.7172 | 0.040                    | -0.6647 | 0.040                      | -0.5404 |
| 0.060                       | -0.7059 | 0.060                    | -0.5808 | 0.060                      | -0.6858 |
| 0.080                       | -0.7462 | 0.080                    | -0.6747 | 0.080                      | -0.6911 |
| 0.100                       | -0.7686 | 0.100                    | -0.8633 | 0.100                      | -0.7088 |
| 0.125                       | -0.7295 | 0.125                    | -0.7714 | 0.125                      | -0.6887 |
| 0.150                       | -0.7948 | 0.150                    | -0.8073 | 0.150                      | -0.6857 |
| 0.175                       | -0.7923 | 0.175                    | -0.7992 | 0.175                      | -0.7428 |
| 0.200                       | -0.8615 | 0.200                    | -0.8196 | 0.200                      | -0.7296 |
| 0.250                       | -0.9768 | 0.250                    | -0.9183 | 0.250                      | -0.8153 |
| 0.300                       | -1.0309 | 0.300                    | -0.9803 | 0.300                      | -0.8697 |
| 0.350                       | -1.0227 | 0.350                    | -1.0113 | 0.350                      | -0.9357 |
| 0.400                       | -1.0090 | 0.400                    | -1.0797 | 0.400                      | -0.9651 |
| 0.450                       | -0.8574 | 0.450                    | -1.0942 | 0.450                      | -1.0359 |
| 0.500                       | -0.8695 | 0.500                    | -1.1552 | 0.500                      | -1.0642 |
| 0.550                       | -0.5106 | 0.550                    | -0.5606 | 0.550                      | -0.4410 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4931 | 0.005 | 0.5246 | 0.005 | 0.4933 |
| 0.010 | 0.2647 | 0.010 | 0.2436 | 0.010 | 0.1651 |

Fight 13 Test point 30

Sweep, deg = 35.2 Mach = 0.82 hp, ft = 34900. Angle of attack, deg = 2.3  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 237.6 Rnpu = 2029000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.6853  | 0.000                    | 0.6915  | 0.000                      | 0.6992  |
| 0.005                       | -0.1466 | 0.005                    | -0.1745 | 0.005                      | 0.0627  |
| 0.010                       | -0.3669 | 0.010                    | -0.3757 | 0.010                      | -0.2150 |
| 0.020                       | -0.5605 | 0.020                    | -0.5852 | 0.020                      | -0.5248 |
| 0.040                       | -0.6961 | 0.040                    | -0.6718 | 0.040                      | -0.6326 |
| 0.060                       | -0.7154 | 0.060                    | -0.7266 | 0.060                      | -0.7212 |
| 0.080                       | -0.7202 | 0.080                    | -0.6524 | 0.080                      | -0.7359 |
| 0.100                       | -0.7358 | 0.100                    | -0.8404 | 0.100                      | -0.7478 |
| 0.125                       | -0.6895 | 0.125                    | -0.7720 | 0.125                      | -0.7075 |
| 0.150                       | -0.7570 | 0.150                    | -0.7684 | 0.150                      | -0.6971 |
| 0.175                       | -0.7522 | 0.175                    | -0.7655 | 0.175                      | -0.7226 |
| 0.200                       | -0.7836 | 0.200                    | -0.7952 | 0.200                      | -0.7134 |
| 0.250                       | -0.8824 | 0.250                    | -0.8602 | 0.250                      | -0.7518 |
| 0.300                       | -0.8400 | 0.300                    | -0.8863 | 0.300                      | -0.7984 |
| 0.350                       | -0.7157 | 0.350                    | -0.9227 | 0.350                      | -0.8462 |
| 0.400                       | -0.7222 | 0.400                    | -0.9595 | 0.400                      | -0.8693 |
| 0.450                       | -0.7516 | 0.450                    | -0.9424 | 0.450                      | -0.8171 |
| 0.500                       | -0.5296 | 0.500                    | -0.4316 | 0.500                      | -0.3479 |
| 0.550                       | -0.3648 | 0.550                    | -0.3747 | 0.550                      | -0.3283 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4680 | 0.005 | 0.5055 | 0.005 | 0.4950 |
| 0.010 | 0.2928 | 0.010 | 0.3017 | 0.010 | 0.2610 |

Fight 13 Test point 31

Sweep, deg = 22.9 Mach = 0.80  $\rho$ , ft = 30000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.0  $\bar{Q}$ BAR, lb/ft<sup>2</sup> = 279.4  $R_{\rho u}$  = 2354000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9474  | 0.000                    | 0.9789  | 0.000                      | 0.9748  |
| 0.005                       | 0.2224  | 0.005                    | 0.2666  | 0.005                      | 0.4984  |
| 0.010                       | -0.0370 | 0.010                    | 0.0191  | 0.010                      | 0.2176  |
| 0.020                       | -0.2870 | 0.020                    | -0.2404 | 0.020                      | -0.1208 |
| 0.040                       | -0.4957 | 0.040                    | -0.4099 | 0.040                      | -0.3118 |
| 0.060                       | -0.5871 | 0.060                    | -0.4601 | 0.060                      | -0.4247 |
| 0.080                       | -0.5984 | 0.080                    | -0.5653 | 0.080                      | -0.4657 |
| 0.100                       | -0.6086 | 0.100                    | -0.7180 | 0.100                      | -0.4895 |
| 0.125                       | -0.6330 | 0.125                    | -0.5131 | 0.125                      | -0.5023 |
| 0.150                       | -0.7029 | 0.150                    | -0.5422 | 0.150                      | -0.5512 |
| 0.175                       | -0.6948 | 0.175                    | -0.6192 | 0.175                      | -0.5811 |
| 0.200                       | -0.7740 | 0.200                    | -0.7156 | 0.200                      | -0.6246 |
| 0.250                       | -0.8826 | 0.250                    | -0.8199 | 0.250                      | -0.7069 |
| 0.300                       | -0.9328 | 0.300                    | -0.8869 | 0.300                      | -0.7541 |
| 0.350                       | -0.9193 | 0.350                    | -0.9132 | 0.350                      | -0.8273 |
| 0.400                       | -0.9370 | 0.400                    | -0.9965 | 0.400                      | -0.8674 |
| 0.450                       | -0.9499 | 0.450                    | -1.0104 | 0.450                      | -0.9166 |
| 0.500                       | -0.8857 | 0.500                    | -1.0628 | 0.500                      | -0.9429 |
| 0.550                       | -0.3897 | 0.550                    | -0.5639 | 0.550                      | -0.7614 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3971 | 0.005 | 0.3985 | 0.005 | 0.3468  |
| 0.010 | 0.1390 | 0.010 | 0.0801 | 0.010 | -0.0314 |

Fight 13 Test point 32

Sweep, deg = 34.9 Mach = 0.80 hp, ft = 29900. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 282.2 R<sub>npu</sub> = 2371000.

Upper surface

| BL 200.8<br>inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7070  | 0.000                    | 0.7249  | 0.000                      | 0.7300  |
| 0.005                       | -0.0834 | 0.005                    | -0.0817 | 0.005                      | 0.1524  |
| 0.010                       | -0.3060 | 0.010                    | -0.2884 | 0.010                      | -0.1173 |
| 0.020                       | -0.4958 | 0.020                    | -0.4909 | 0.020                      | -0.4134 |
| 0.040                       | -0.7483 | 0.040                    | -0.5639 | 0.040                      | -0.5367 |
| 0.060                       | -0.6820 | 0.060                    | -0.5479 | 0.060                      | -0.6169 |
| 0.080                       | -0.6571 | 0.080                    | -0.6991 | 0.080                      | -0.5967 |
| 0.100                       | -0.6656 | 0.100                    | -0.8714 | 0.100                      | -0.5896 |
| 0.125                       | -0.6292 | 0.125                    | -0.7169 | 0.125                      | -0.5694 |
| 0.150                       | -0.6735 | 0.150                    | -0.6796 | 0.150                      | -0.6251 |
| 0.175                       | -0.5748 | 0.175                    | -0.6805 | 0.175                      | -0.6545 |
| 0.200                       | -0.6941 | 0.200                    | -0.7201 | 0.200                      | -0.6554 |
| 0.250                       | -0.7654 | 0.250                    | -0.7888 | 0.250                      | -0.6719 |
| 0.300                       | -0.7590 | 0.300                    | -0.8142 | 0.300                      | -0.6716 |
| 0.350                       | -0.7283 | 0.350                    | -0.8130 | 0.350                      | -0.5470 |
| 0.400                       | -0.6924 | 0.400                    | -0.5245 | 0.400                      | -0.5376 |
| 0.450                       | -0.4655 | 0.450                    | -0.5099 | 0.450                      | -0.4803 |
| 0.500                       | -0.4514 | 0.500                    | -0.4903 | 0.500                      | -0.4280 |
| 0.550                       | -0.3881 | 0.550                    | -0.4620 | 0.550                      | -0.4205 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4132 | 0.005 | 0.4415 | 0.005 | 0.4162 |
| 0.010 | 0.2219 | 0.010 | 0.2138 | 0.010 | 0.1544 |

Fight 13 Test point 33

Sweep, deg = 26.5 Mach = 0.80 hp, ft = 30000. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 281.3 Rnpu = 2365000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8802  | 0.000                    | 0.9089  | 0.000                      | 0.9079  |
| 0.005                       | 0.1499  | 0.005                    | 0.1753  | 0.005                      | 0.4128  |
| 0.010                       | -0.1042 | 0.010                    | -0.0557 | 0.010                      | 0.1335  |
| 0.020                       | -0.3394 | 0.020                    | -0.3043 | 0.020                      | -0.1932 |
| 0.040                       | -0.5293 | 0.040                    | -0.4551 | 0.040                      | -0.3698 |
| 0.060                       | -0.6357 | 0.060                    | -0.4860 | 0.060                      | -0.4676 |
| 0.080                       | -0.5956 | 0.080                    | -0.6057 | 0.080                      | -0.5051 |
| 0.100                       | -0.6164 | 0.100                    | -0.7723 | 0.100                      | -0.5278 |
| 0.125                       | -0.6367 | 0.125                    | -0.5862 | 0.125                      | -0.5294 |
| 0.150                       | -0.7098 | 0.150                    | -0.6007 | 0.150                      | -0.5849 |
| 0.175                       | -0.6878 | 0.175                    | -0.6145 | 0.175                      | -0.6135 |
| 0.200                       | -0.7194 | 0.200                    | -0.7130 | 0.200                      | -0.6301 |
| 0.250                       | -0.8537 | 0.250                    | -0.8063 | 0.250                      | -0.7126 |
| 0.300                       | -0.9095 | 0.300                    | -0.8542 | 0.300                      | -0.7603 |
| 0.350                       | -0.9007 | 0.350                    | -0.9194 | 0.350                      | -0.8223 |
| 0.400                       | -0.8463 | 0.400                    | -0.9704 | 0.400                      | -0.8633 |
| 0.450                       | -0.7365 | 0.450                    | -0.9915 | 0.450                      | -0.9120 |
| 0.500                       | -0.6646 | 0.500                    | -1.0323 | 0.500                      | -0.9210 |
| 0.550                       | -0.3925 | 0.550                    | -0.4758 | 0.550                      | -0.3905 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3948 | 0.005 | 0.4000 | 0.005 | 0.3590 |
| 0.010 | 0.1577 | 0.010 | 0.1096 | 0.010 | 0.0107 |

Flight 13 Test point 34

Sweep, deg = 22.1 Mach = 0.80 hp, ft = 25100. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 352.8 Rnpu = 2836000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9590  | 0.000                    | 0.9908  | 0.000                      | 0.9769  |
| 0.005                       | 0.3354  | 0.005                    | 0.3838  | 0.005                      | 0.5953  |
| 0.010                       | 0.0774  | 0.010                    | 0.1407  | 0.010                      | 0.3323  |
| 0.020                       | -0.1756 | 0.020                    | -0.1190 | 0.020                      | -0.0024 |
| 0.040                       | -0.3898 | 0.040                    | -0.3003 | 0.040                      | -0.2048 |
| 0.060                       | -0.4635 | 0.060                    | -0.3764 | 0.060                      | -0.3204 |
| 0.080                       | -0.5127 | 0.080                    | -0.5010 | 0.080                      | -0.3676 |
| 0.100                       | -0.5685 | 0.100                    | -0.4770 | 0.100                      | -0.4057 |
| 0.125                       | -0.5546 | 0.125                    | -0.4742 | 0.125                      | -0.4279 |
| 0.150                       | -0.6338 | 0.150                    | -0.5305 | 0.150                      | -0.4700 |
| 0.175                       | -0.6352 | 0.175                    | -0.5896 | 0.175                      | -0.5430 |
| 0.200                       | -0.6574 | 0.200                    | -0.6694 | 0.200                      | -0.5585 |
| 0.250                       | -0.8109 | 0.250                    | -0.7484 | 0.250                      | -0.6295 |
| 0.300                       | -0.8771 | 0.300                    | -0.8094 | 0.300                      | -0.6924 |
| 0.350                       | -0.8773 | 0.350                    | -0.8639 | 0.350                      | -0.7763 |
| 0.400                       | -0.9009 | 0.400                    | -0.9337 | 0.400                      | -0.8167 |
| 0.450                       | -0.9167 | 0.450                    | -0.9578 | 0.450                      | -0.8727 |
| 0.500                       | -0.9678 | 0.500                    | -1.0027 | 0.500                      | -0.8994 |
| 0.550                       | -0.4197 | 0.550                    | -0.9830 | 0.550                      | -0.8729 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3095 | 0.005 | 0.3004  | 0.005 | 0.2393  |
| 0.010 | 0.0362 | 0.010 | -0.0379 | 0.010 | -0.1715 |

Fight 13 Test point 35

Sweep, deg = 34.9 Mach = 0.80 hp, ft = 24900. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 356.6 Rnpu = 2858000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7258  | 0.000                    | 0.7465  | 0.000                      | 0.7501  |
| 0.005                       | 0.0410  | 0.005                    | 0.0462  | 0.005                      | 0.2648  |
| 0.010                       | -0.1812 | 0.010                    | -0.1548 | 0.010                      | 0.0184  |
| 0.020                       | -0.3855 | 0.020                    | -0.3674 | 0.020                      | -0.2700 |
| 0.040                       | -0.5222 | 0.040                    | -0.4478 | 0.040                      | -0.4036 |
| 0.060                       | -0.5360 | 0.060                    | -0.5031 | 0.060                      | -0.4751 |
| 0.080                       | -0.5455 | 0.080                    | -0.6542 | 0.080                      | -0.4961 |
| 0.100                       | -0.6344 | 0.100                    | -0.7575 | 0.100                      | -0.5103 |
| 0.125                       | -0.5376 | 0.125                    | -0.5925 | 0.125                      | -0.5264 |
| 0.150                       | -0.5971 | 0.150                    | -0.5255 | 0.150                      | -0.5240 |
| 0.175                       | -0.5666 | 0.175                    | -0.6451 | 0.175                      | -0.5867 |
| 0.200                       | -0.6829 | 0.200                    | -0.6670 | 0.200                      | -0.5631 |
| 0.250                       | -0.7298 | 0.250                    | -0.7397 | 0.250                      | -0.6147 |
| 0.300                       | -0.6917 | 0.300                    | -0.7608 | 0.300                      | -0.5560 |
| 0.350                       | -0.6662 | 0.350                    | -0.6971 | 0.350                      | -0.6204 |
| 0.400                       | -0.6364 | 0.400                    | -0.5154 | 0.400                      | -0.5211 |
| 0.450                       | -0.4663 | 0.450                    | -0.5190 | 0.450                      | -0.4732 |
| 0.500                       | -0.4480 | 0.500                    | -0.4936 | 0.500                      | -0.4232 |
| 0.550                       | -0.3918 | 0.550                    | -0.4679 | 0.550                      | -0.4227 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3371 | 0.005 | 0.3537 | 0.005 | 0.3184 |
| 0.010 | 0.1335 | 0.010 | 0.1157 | 0.010 | 0.0372 |



Flight 13 Test point 36

Sweep, deg = 27.3 Mach = 0.80 hp, ft = 25800. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 341.9 Rnpu = 2766000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8691  | 0.000                    | 0.8987  | 0.000                      | 0.8956  |
| 0.005                       | 0.2242  | 0.005                    | 0.2600  | 0.005                      | 0.4735  |
| 0.010                       | -0.0203 | 0.010                    | 0.0281  | 0.010                      | 0.2150  |
| 0.020                       | -0.2556 | 0.020                    | -0.2122 | 0.020                      | -0.1125 |
| 0.040                       | -0.4472 | 0.040                    | -0.3678 | 0.040                      | -0.2884 |
| 0.060                       | -0.4987 | 0.060                    | -0.4260 | 0.060                      | -0.3903 |
| 0.080                       | -0.5412 | 0.080                    | -0.5616 | 0.080                      | -0.4260 |
| 0.100                       | -0.6053 | 0.100                    | -0.7227 | 0.100                      | -0.4488 |
| 0.125                       | -0.5611 | 0.125                    | -0.4829 | 0.125                      | -0.4735 |
| 0.150                       | -0.6390 | 0.150                    | -0.5496 | 0.150                      | -0.5112 |
| 0.175                       | -0.6504 | 0.175                    | -0.6206 | 0.175                      | -0.5702 |
| 0.200                       | -0.6755 | 0.200                    | -0.6925 | 0.200                      | -0.5717 |
| 0.250                       | -0.7869 | 0.250                    | -0.7443 | 0.250                      | -0.6521 |
| 0.300                       | -0.8432 | 0.300                    | -0.7816 | 0.300                      | -0.6986 |
| 0.350                       | -0.6990 | 0.350                    | -0.8761 | 0.350                      | -0.7673 |
| 0.400                       | -0.7391 | 0.400                    | -0.9222 | 0.400                      | -0.8012 |
| 0.450                       | -0.7382 | 0.450                    | -0.9319 | 0.450                      | -0.8501 |
| 0.500                       | -0.6688 | 0.500                    | -0.8411 | 0.500                      | -0.7082 |
| 0.550                       | -0.3893 | 0.550                    | -0.4294 | 0.550                      | -0.3743 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3123 | 0.005 | 0.3134 | 0.005 | 0.2619  |
| 0.010 | 0.0654 | 0.010 | 0.0097 | 0.010 | -0.1029 |

Flight 13 Test point 37

Sweep, deg = 23.4 Mach = 0.80 hp, ft = 25100. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 352.0 Rnpu = 2832000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9399  | 0.000                    | 0.9694  | 0.000                      | 0.9577  |
| 0.005                       | 0.3303  | 0.005                    | 0.3771  | 0.005                      | 0.5820  |
| 0.010                       | 0.0762  | 0.010                    | 0.1352  | 0.010                      | 0.3272  |
| 0.020                       | -0.1722 | 0.020                    | -0.1208 | 0.020                      | -0.0062 |
| 0.040                       | -0.3843 | 0.040                    | -0.3002 | 0.040                      | -0.2034 |
| 0.060                       | -0.4573 | 0.060                    | -0.3773 | 0.060                      | -0.3172 |
| 0.080                       | -0.5003 | 0.080                    | -0.5079 | 0.080                      | -0.3690 |
| 0.100                       | -0.5627 | 0.100                    | -0.4716 | 0.100                      | -0.4042 |
| 0.125                       | -0.5322 | 0.125                    | -0.4713 | 0.125                      | -0.4196 |
| 0.150                       | -0.6226 | 0.150                    | -0.5027 | 0.150                      | -0.4665 |
| 0.175                       | -0.6176 | 0.175                    | -0.5894 | 0.175                      | -0.5385 |
| 0.200                       | -0.6659 | 0.200                    | -0.6674 | 0.200                      | -0.5336 |
| 0.250                       | -0.8002 | 0.250                    | -0.7241 | 0.250                      | -0.6213 |
| 0.300                       | -0.8744 | 0.300                    | -0.7932 | 0.300                      | -0.6880 |
| 0.350                       | -0.8673 | 0.350                    | -0.8697 | 0.350                      | -0.7580 |
| 0.400                       | -0.8605 | 0.400                    | -0.9209 | 0.400                      | -0.8051 |
| 0.450                       | -0.8515 | 0.450                    | -0.9531 | 0.450                      | -0.8555 |
| 0.500                       | -0.7816 | 0.500                    | -0.9927 | 0.500                      | -0.8812 |
| 0.550                       | -0.4030 | 0.550                    | -0.8530 | 0.550                      | -0.7335 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2895 | 0.005 | 0.2808  | 0.005 | 0.2202  |
| 0.010 | 0.0212 | 0.010 | -0.0539 | 0.010 | -0.1838 |

Flight 13 Test point 38

Sweep, deg = 20.8 Mach = 0.80 hp, ft = 24900. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 354.7 Rnpu = 2851000.

Upper surface

| BL 200.8        |         | BL 260         |         | BL 320           |         |
|-----------------|---------|----------------|---------|------------------|---------|
| Inboard station |         | Middle station |         | Outboard station |         |
| x/c             | Cp      | x/c            | Cp      | x/c              | Cp      |
| 0.000           | 0.9748  | 0.000          | 1.0031  | 0.000            | 0.9969  |
| 0.005           | 0.3818  | 0.005          | 0.4350  | 0.005            | 0.6391  |
| 0.010           | 0.1230  | 0.010          | 0.1918  | 0.010            | 0.3797  |
| 0.020           | -0.1342 | 0.020          | -0.0759 | 0.020            | 0.0443  |
| 0.040           | -0.3548 | 0.040          | -0.2674 | 0.040            | -0.1619 |
| 0.060           | -0.4344 | 0.060          | -0.3486 | 0.060            | -0.2834 |
| 0.080           | -0.4845 | 0.080          | -0.4705 | 0.080            | -0.3369 |
| 0.100           | -0.5472 | 0.100          | -0.4470 | 0.100            | -0.3774 |
| 0.125           | -0.5281 | 0.125          | -0.4597 | 0.125            | -0.4023 |
| 0.150           | -0.6255 | 0.150          | -0.4982 | 0.150            | -0.4584 |
| 0.175           | -0.6164 | 0.175          | -0.5773 | 0.175            | -0.5124 |
| 0.200           | -0.6587 | 0.200          | -0.6546 | 0.200            | -0.5236 |
| 0.250           | -0.7974 | 0.250          | -0.7286 | 0.250            | -0.6120 |
| 0.300           | -0.8693 | 0.300          | -0.7894 | 0.300            | -0.6887 |
| 0.350           | -0.8761 | 0.350          | -0.8526 | 0.350            | -0.7530 |
| 0.400           | -0.8884 | 0.400          | -0.9245 | 0.400            | -0.7989 |
| 0.450           | -0.9129 | 0.450          | -0.9448 | 0.450            | -0.8589 |
| 0.500           | -0.9513 | 0.500          | -0.9872 | 0.500            | -0.8811 |
| 0.550           | -0.4169 | 0.550          | -1.0236 | 0.550            | -0.8965 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2841 | 0.005 | 0.2716  | 0.005 | 0.2092  |
| 0.010 | 0.0037 | 0.010 | -0.0792 | 0.010 | -0.2168 |

Flight 13 Test point 39

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20200. Angle of attack, deg = -0.2  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 428.5 Rnpu = 3326000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9705  | 0.000                    | 0.9984  | 0.000                      | 0.9879  |
| 0.005                       | 0.4665  | 0.005                    | 0.5197  | 0.005                      | 0.7048  |
| 0.010                       | 0.2078  | 0.010                    | 0.2792  | 0.010                      | 0.4611  |
| 0.020                       | -0.0512 | 0.020                    | 0.0114  | 0.020                      | 0.1299  |
| 0.040                       | -0.2745 | 0.040                    | -0.1861 | 0.040                      | -0.0843 |
| 0.060                       | -0.3639 | 0.060                    | -0.2836 | 0.060                      | -0.2105 |
| 0.080                       | -0.4247 | 0.080                    | -0.3679 | 0.080                      | -0.2691 |
| 0.100                       | -0.4760 | 0.100                    | -0.3895 | 0.100                      | -0.3102 |
| 0.125                       | -0.4716 | 0.125                    | -0.4067 | 0.125                      | -0.3464 |
| 0.150                       | -0.5323 | 0.150                    | -0.4600 | 0.150                      | -0.3932 |
| 0.175                       | -0.5736 | 0.175                    | -0.5353 | 0.175                      | -0.4488 |
| 0.200                       | -0.6172 | 0.200                    | -0.6068 | 0.200                      | -0.4619 |
| 0.250                       | -0.7619 | 0.250                    | -0.6556 | 0.250                      | -0.5808 |
| 0.300                       | -0.8318 | 0.300                    | -0.7331 | 0.300                      | -0.6288 |
| 0.350                       | -0.8293 | 0.350                    | -0.8275 | 0.350                      | -0.7011 |
| 0.400                       | -0.8343 | 0.400                    | -0.8772 | 0.400                      | -0.7485 |
| 0.450                       | -0.8595 | 0.450                    | -0.9156 | 0.450                      | -0.8047 |
| 0.500                       | -0.7531 | 0.500                    | -0.9597 | 0.500                      | -0.8321 |
| 0.550                       | -0.3935 | 0.550                    | -0.9607 | 0.550                      | -0.8365 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.1994  | 0.005 | 0.1795  | 0.005 | 0.1230  |
| 0.010 | -0.0933 | 0.010 | -0.1896 | 0.010 | -0.3223 |

Flight 13 Test point 40

Sweep, deg = 29.6 Mach = 0.80 hp, ft = 20300. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 433.3 Rnpu = 3344000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8235  | 0.000                    | 0.8521  | 0.000                      | 0.8459  |
| 0.005                       | 0.2694  | 0.005                    | 0.3051  | 0.005                      | 0.4995  |
| 0.010                       | 0.0358  | 0.010                    | 0.0853  | 0.010                      | 0.2665  |
| 0.020                       | -0.1908 | 0.020                    | -0.1451 | 0.020                      | -0.0412 |
| 0.040                       | -0.3658 | 0.040                    | -0.2821 | 0.040                      | -0.2139 |
| 0.060                       | -0.4276 | 0.060                    | -0.3838 | 0.060                      | -0.3037 |
| 0.080                       | -0.4799 | 0.080                    | -0.5323 | 0.080                      | -0.3531 |
| 0.100                       | -0.5272 | 0.100                    | -0.4506 | 0.100                      | -0.3870 |
| 0.125                       | -0.5002 | 0.125                    | -0.4608 | 0.125                      | -0.4101 |
| 0.150                       | -0.5016 | 0.150                    | -0.5020 | 0.150                      | -0.4549 |
| 0.175                       | -0.5365 | 0.175                    | -0.5824 | 0.175                      | -0.4975 |
| 0.200                       | -0.6554 | 0.200                    | -0.6143 | 0.200                      | -0.4978 |
| 0.250                       | -0.7049 | 0.250                    | -0.6948 | 0.250                      | -0.5947 |
| 0.300                       | -0.7158 | 0.300                    | -0.7281 | 0.300                      | -0.6269 |
| 0.350                       | -0.6924 | 0.350                    | -0.7501 | 0.350                      | -0.6783 |
| 0.400                       | -0.6823 | 0.400                    | -0.8110 | 0.400                      | -0.6884 |
| 0.450                       | -0.6123 | 0.450                    | -0.4893 | 0.450                      | -0.4513 |
| 0.500                       | -0.4462 | 0.500                    | -0.4977 | 0.500                      | -0.4380 |
| 0.550                       | -0.4064 | 0.550                    | -0.4865 | 0.550                      | -0.4338 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2165  | 0.005 | 0.2148  | 0.005 | 0.1594  |
| 0.010 | -0.0276 | 0.010 | -0.0912 | 0.010 | -0.2098 |

Flight 13 Test point 41

Sweep, deg = 24.2 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 439.0 Rnpu = 3379000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9129  | 0.000                    | 0.9451  | 0.000                      | 0.9298  |
| 0.005                       | 0.3982  | 0.005                    | 0.4480  | 0.005                      | 0.6360  |
| 0.010                       | 0.1532  | 0.010                    | 0.2136  | 0.010                      | 0.3967  |
| 0.020                       | -0.0931 | 0.020                    | -0.0389 | 0.020                      | 0.0756  |
| 0.040                       | -0.2949 | 0.040                    | -0.2223 | 0.040                      | -0.1245 |
| 0.060                       | -0.3679 | 0.060                    | -0.3155 | 0.060                      | -0.2450 |
| 0.080                       | -0.4357 | 0.080                    | -0.4108 | 0.080                      | -0.2964 |
| 0.100                       | -0.4880 | 0.100                    | -0.4089 | 0.100                      | -0.3246 |
| 0.125                       | -0.4878 | 0.125                    | -0.4251 | 0.125                      | -0.3588 |
| 0.150                       | -0.5263 | 0.150                    | -0.4753 | 0.150                      | -0.4159 |
| 0.175                       | -0.5173 | 0.175                    | -0.5503 | 0.175                      | -0.4669 |
| 0.200                       | -0.6290 | 0.200                    | -0.6123 | 0.200                      | -0.4772 |
| 0.250                       | -0.7468 | 0.250                    | -0.6703 | 0.250                      | -0.5940 |
| 0.300                       | -0.8008 | 0.300                    | -0.7262 | 0.300                      | -0.6407 |
| 0.350                       | -0.7878 | 0.350                    | -0.8333 | 0.350                      | -0.7080 |
| 0.400                       | -0.7100 | 0.400                    | -0.8591 | 0.400                      | -0.7565 |
| 0.450                       | -0.7342 | 0.450                    | -0.8871 | 0.450                      | -0.8051 |
| 0.500                       | -0.7706 | 0.500                    | -0.9151 | 0.500                      | -0.8357 |
| 0.550                       | -0.3919 | 0.550                    | -0.5101 | 0.550                      | -0.4269 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.1953  | 0.005 | 0.1847  | 0.005 | 0.1183  |
| 0.010 | -0.0800 | 0.010 | -0.1600 | 0.010 | -0.3031 |

Flight 13 Test point 42

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20600. Angle of attack, deg = -0.2  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 426.6 Rnpu = 3305000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9719  | 0.000                    | 1.0026  | 0.000                      | 0.9891  |
| 0.005                       | 0.4823  | 0.005                    | 0.5367  | 0.005                      | 0.7146  |
| 0.010                       | 0.2257  | 0.010                    | 0.2973  | 0.010                      | 0.4760  |
| 0.020                       | -0.0337 | 0.020                    | 0.0320  | 0.020                      | 0.1455  |
| 0.040                       | -0.2568 | 0.040                    | -0.1686 | 0.040                      | -0.0659 |
| 0.060                       | -0.3470 | 0.060                    | -0.2653 | 0.060                      | -0.1956 |
| 0.080                       | -0.4104 | 0.080                    | -0.3529 | 0.080                      | -0.2561 |
| 0.100                       | -0.4584 | 0.100                    | -0.3789 | 0.100                      | -0.2974 |
| 0.125                       | -0.4682 | 0.125                    | -0.3943 | 0.125                      | -0.3316 |
| 0.150                       | -0.5150 | 0.150                    | -0.4461 | 0.150                      | -0.3795 |
| 0.175                       | -0.5656 | 0.175                    | -0.5206 | 0.175                      | -0.4346 |
| 0.200                       | -0.6067 | 0.200                    | -0.5932 | 0.200                      | -0.4463 |
| 0.250                       | -0.7497 | 0.250                    | -0.6377 | 0.250                      | -0.5692 |
| 0.300                       | -0.8225 | 0.300                    | -0.7176 | 0.300                      | -0.6201 |
| 0.350                       | -0.8235 | 0.350                    | -0.8096 | 0.350                      | -0.6936 |
| 0.400                       | -0.8307 | 0.400                    | -0.8636 | 0.400                      | -0.7418 |
| 0.450                       | -0.8634 | 0.450                    | -0.9059 | 0.450                      | -0.8005 |
| 0.500                       | -0.7709 | 0.500                    | -0.9521 | 0.500                      | -0.8310 |
| 0.550                       | -0.4027 | 0.550                    | -0.9762 | 0.550                      | -0.8660 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.1918  | 0.005 | 0.1713  | 0.005 | 0.1164  |
| 0.010 | -0.0994 | 0.010 | -0.2000 | 0.010 | -0.3241 |

Flight 13 Test point 43

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20200. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 434.4 Rnpu = 3357000.

Upper surface

| BL 200.8        |         | BL 260         |         | BL 320           |         |
|-----------------|---------|----------------|---------|------------------|---------|
| Inboard station |         | Middle station |         | Outboard station |         |
| x/c             | Cp      | x/c            | Cp      | x/c              | Cp      |
| 0.000           | 0.9919  | 0.000          | 1.0210  | 0.000            | 1.0071  |
| 0.005           | 0.3458  | 0.005          | 0.4042  | 0.005            | 0.6185  |
| 0.010           | 0.0787  | 0.010          | 0.1500  | 0.010            | 0.3528  |
| 0.020           | -0.1788 | 0.020          | -0.1155 | 0.020            | 0.0050  |
| 0.040           | -0.4008 | 0.040          | -0.3035 | 0.040            | -0.1974 |
| 0.060           | -0.4771 | 0.060          | -0.3777 | 0.060            | -0.3193 |
| 0.080           | -0.5391 | 0.080          | -0.4913 | 0.080            | -0.3711 |
| 0.100           | -0.5547 | 0.100          | -0.5318 | 0.100            | -0.4075 |
| 0.125           | -0.5683 | 0.125          | -0.5182 | 0.125            | -0.4354 |
| 0.150           | -0.6417 | 0.150          | -0.5421 | 0.150            | -0.4786 |
| 0.175           | -0.6456 | 0.175          | -0.5551 | 0.175            | -0.5306 |
| 0.200           | -0.7364 | 0.200          | -0.6486 | 0.200            | -0.5610 |
| 0.250           | -0.8466 | 0.250          | -0.7510 | 0.250            | -0.6334 |
| 0.300           | -0.8905 | 0.300          | -0.8372 | 0.300            | -0.7028 |
| 0.350           | -0.8832 | 0.350          | -0.8452 | 0.350            | -0.7773 |
| 0.400           | -0.9061 | 0.400          | -0.9656 | 0.400            | -0.8320 |
| 0.450           | -0.9455 | 0.450          | -0.9789 | 0.450            | -0.8835 |
| 0.500           | -1.0391 | 0.500          | -1.0292 | 0.500            | -0.9171 |
| 0.550           | -0.5425 | 0.550          | -0.8104 | 0.550            | -0.9413 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3433 | 0.005 | 0.3205  | 0.005 | 0.2606  |
| 0.010 | 0.0680 | 0.010 | -0.0191 | 0.010 | -0.1550 |



Flight 13 Test point 44

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20200. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 436.2 Rnpu = 3364000.

Upper surface

| BL 200.8        |         | BL 260         |         | BL 320           |         |
|-----------------|---------|----------------|---------|------------------|---------|
| Inboard station |         | Middle station |         | Outboard station |         |
| x/c             | Cp      | x/c            | Cp      | x/c              | Cp      |
| 0.000           | 0.9893  | 0.000          | 1.0184  | 0.000            | 1.0114  |
| 0.005           | 0.2133  | 0.005          | 0.2785  | 0.005            | 0.5141  |
| 0.010           | -0.0581 | 0.010          | 0.0093  | 0.010            | 0.2272  |
| 0.020           | -0.3167 | 0.020          | -0.2512 | 0.020            | -0.1343 |
| 0.040           | -0.5796 | 0.040          | -0.4356 | 0.040            | -0.3281 |
| 0.060           | -0.5929 | 0.060          | -0.4653 | 0.060            | -0.4482 |
| 0.080           | -0.6480 | 0.080          | -0.5528 | 0.080            | -0.4943 |
| 0.100           | -0.6756 | 0.100          | -0.7139 | 0.100            | -0.5172 |
| 0.125           | -0.6520 | 0.125          | -0.6301 | 0.125            | -0.5122 |
| 0.150           | -0.7348 | 0.150          | -0.6715 | 0.150            | -0.5745 |
| 0.175           | -0.7537 | 0.175          | -0.6815 | 0.175            | -0.6172 |
| 0.200           | -0.8244 | 0.200          | -0.6830 | 0.200            | -0.6288 |
| 0.250           | -0.9028 | 0.250          | -0.8185 | 0.250            | -0.7166 |
| 0.300           | -0.9918 | 0.300          | -0.8874 | 0.300            | -0.7791 |
| 0.350           | -1.0004 | 0.350          | -0.9278 | 0.350            | -0.8442 |
| 0.400           | -1.0039 | 0.400          | -1.0222 | 0.400            | -0.9004 |
| 0.450           | -1.0051 | 0.450          | -1.0573 | 0.450            | -0.9491 |
| 0.500           | -1.0881 | 0.500          | -1.0561 | 0.500            | -0.9915 |
| 0.550           | -0.4683 | 0.550          | -0.4389 | 0.550            | -0.5316 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4733 | 0.005 | 0.4520 | 0.005 | 0.3958 |
| 0.010 | 0.2153 | 0.010 | 0.1391 | 0.010 | 0.0142 |

Flight 13 Test point 45

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 439.4 R<sub>pu</sub> = 3383000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8962  | 0.000                    | 0.9263  | 0.000                      | 0.9169  |
| 0.005                       | 0.3748  | 0.005                    | 0.4202  | 0.005                      | 0.6083  |
| 0.010                       | 0.1282  | 0.010                    | 0.1869  | 0.010                      | 0.3638  |
| 0.020                       | -0.1152 | 0.020                    | -0.0619 | 0.020                      | 0.0513  |
| 0.040                       | -0.3143 | 0.040                    | -0.2424 | 0.040                      | -0.1451 |
| 0.060                       | -0.3829 | 0.060                    | -0.3272 | 0.060                      | -0.2615 |
| 0.080                       | -0.4460 | 0.080                    | -0.4186 | 0.080                      | -0.3086 |
| 0.100                       | -0.4928 | 0.100                    | -0.4121 | 0.100                      | -0.3407 |
| 0.125                       | -0.4930 | 0.125                    | -0.4522 | 0.125                      | -0.3709 |
| 0.150                       | -0.5487 | 0.150                    | -0.4837 | 0.150                      | -0.4263 |
| 0.175                       | -0.5202 | 0.175                    | -0.5560 | 0.175                      | -0.4747 |
| 0.200                       | -0.6347 | 0.200                    | -0.6110 | 0.200                      | -0.4851 |
| 0.250                       | -0.7486 | 0.250                    | -0.6852 | 0.250                      | -0.6017 |
| 0.300                       | -0.7860 | 0.300                    | -0.7351 | 0.300                      | -0.6434 |
| 0.350                       | -0.6866 | 0.350                    | -0.8202 | 0.350                      | -0.7092 |
| 0.400                       | -0.7248 | 0.400                    | -0.8570 | 0.400                      | -0.7585 |
| 0.450                       | -0.7393 | 0.450                    | -0.8735 | 0.450                      | -0.8047 |
| 0.500                       | -0.7340 | 0.500                    | -0.8917 | 0.500                      | -0.8200 |
| 0.550                       | -0.3914 | 0.550                    | -0.4500 | 0.550                      | -0.3904 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.1995  | 0.005 | 0.1895  | 0.005 | 0.1239  |
| 0.010 | -0.0717 | 0.010 | -0.1478 | 0.010 | -0.2903 |

Flight 13 Test point 46

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 20100. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 434.8 Rrho = 3358000.

Upper surface

| IL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9097  | 0.000                    | 0.9357  | 0.000                      | 0.9264  |
| 0.005                       | 0.2258  | 0.005                    | 0.2747  | 0.005                      | 0.4921  |
| 0.010                       | -0.0299 | 0.010                    | 0.0258  | 0.010                      | 0.2261  |
| 0.020                       | -0.2748 | 0.020                    | -0.2205 | 0.020                      | -0.1099 |
| 0.040                       | -0.4724 | 0.040                    | -0.3873 | 0.040                      | -0.2947 |
| 0.060                       | -0.4801 | 0.060                    | -0.4375 | 0.060                      | -0.4014 |
| 0.080                       | -0.5829 | 0.080                    | -0.5522 | 0.080                      | -0.4414 |
| 0.100                       | -0.5918 | 0.100                    | -0.7323 | 0.100                      | -0.4573 |
| 0.125                       | -0.5982 | 0.125                    | -0.5019 | 0.125                      | -0.4798 |
| 0.150                       | -0.6852 | 0.150                    | -0.6282 | 0.150                      | -0.5199 |
| 0.175                       | -0.6752 | 0.175                    | -0.6275 | 0.175                      | -0.5600 |
| 0.200                       | -0.7031 | 0.200                    | -0.6716 | 0.200                      | -0.5917 |
| 0.250                       | -0.8403 | 0.250                    | -0.7659 | 0.250                      | -0.6697 |
| 0.300                       | -0.8901 | 0.300                    | -0.8335 | 0.300                      | -0.7340 |
| 0.350                       | -0.8966 | 0.350                    | -0.8749 | 0.350                      | -0.8025 |
| 0.400                       | -0.8845 | 0.400                    | -0.9591 | 0.400                      | -0.8554 |
| 0.450                       | -0.7892 | 0.450                    | -0.9779 | 0.450                      | -0.9000 |
| 0.500                       | -0.8149 | 0.500                    | -1.0241 | 0.500                      | -0.9230 |
| 0.550                       | -0.4031 | 0.550                    | -0.6466 | 0.550                      | -0.5596 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3563 | 0.005 | 0.3456 | 0.005 | 0.2907  |
| 0.010 | 0.1036 | 0.010 | 0.0370 | 0.010 | -0.0818 |

Flight 13 Test point 47

Sweep, deg = 25.3 Mach = 0.81 hp, ft = 20200. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 438.3 Rnpu = 3373000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9040  | 0.000                    | 0.9321  | 0.000                      | 0.9268  |
| 0.005                       | 0.1563  | 0.005                    | 0.2046  | 0.005                      | 0.4325  |
| 0.010                       | -0.1015 | 0.010                    | -0.0477 | 0.010                      | 0.1605  |
| 0.020                       | -0.3446 | 0.020                    | -0.2968 | 0.020                      | -0.1861 |
| 0.040                       | -0.6150 | 0.040                    | -0.4608 | 0.040                      | -0.3649 |
| 0.060                       | -0.5970 | 0.060                    | -0.4776 | 0.060                      | -0.4707 |
| 0.080                       | -0.5855 | 0.080                    | -0.5713 | 0.080                      | -0.5120 |
| 0.100                       | -0.6688 | 0.100                    | -0.7536 | 0.100                      | -0.5160 |
| 0.125                       | -0.6303 | 0.125                    | -0.5683 | 0.125                      | -0.4889 |
| 0.150                       | -0.7328 | 0.150                    | -0.6461 | 0.150                      | -0.5782 |
| 0.175                       | -0.7175 | 0.175                    | -0.6718 | 0.175                      | -0.6205 |
| 0.200                       | -0.7946 | 0.200                    | -0.7007 | 0.200                      | -0.6286 |
| 0.250                       | -0.8974 | 0.250                    | -0.7973 | 0.250                      | -0.7197 |
| 0.300                       | -0.9354 | 0.300                    | -0.8764 | 0.300                      | -0.7759 |
| 0.350                       | -0.9257 | 0.350                    | -0.9020 | 0.350                      | -0.8378 |
| 0.400                       | -0.9467 | 0.400                    | -1.0080 | 0.400                      | -0.8819 |
| 0.450                       | -0.9639 | 0.450                    | -1.0219 | 0.450                      | -0.9372 |
| 0.500                       | -0.9963 | 0.500                    | -1.0668 | 0.500                      | -0.9707 |
| 0.550                       | -0.4407 | 0.550                    | -0.5294 | 0.550                      | -0.5612 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4233 | 0.005 | 0.4155 | 0.005 | 0.3667 |
| 0.010 | 0.1825 | 0.010 | 0.1226 | 0.010 | 0.0118 |

Flight 14 Test point 1

Sweep, deg = 20.0 Mach = 0.60 hp, ft = 9900. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 367.1 Rnpu = 3519000.

Upper surface

| BL 200.8        |         | BL 260         |         | BL 320           |         |
|-----------------|---------|----------------|---------|------------------|---------|
| Inboard station |         | Middle station |         | Outboard station |         |
| x/c             | Cp      | x/c            | Cp      | x/c              | Cp      |
| 0.000           | 0.9284  | 0.000          | 0.9672  | 0.000            | 0.9632  |
| 0.005           | 0.0427  | 0.005          | 0.1238  | 0.005            | 0.4431  |
| 0.010           | -0.2245 | 0.010          | -0.1334 | 0.010            | 0.1520  |
| 0.020           | -0.4485 | 0.020          | -0.3660 | 0.020            | -0.1852 |
| 0.040           | -0.5747 | 0.040          | -0.4827 | 0.040            | -0.3298 |
| 0.060           | -0.5963 | 0.060          | -0.5066 | 0.060            | -0.3952 |
| 0.080           | -0.5995 | 0.080          | -0.5233 | 0.080            | -0.4105 |
| 0.100           | -0.6004 | 0.100          | -0.5314 | 0.100            | -0.4220 |
| 0.125           | -0.5301 | 0.125          | -0.5346 | 0.125            | -0.4251 |
| 0.150           | -0.5974 | 0.150          | -0.5485 | 0.150            | -0.4410 |
| 0.175           | -0.5822 | 0.175          | -0.5558 | 0.175            | -0.4547 |
| 0.200           | -0.6137 | 0.200          | -0.5688 | 0.200            | -0.4493 |
| 0.250           | -0.6157 | 0.250          | -0.5942 | 0.250            | -0.4896 |
| 0.300           | -0.6023 | 0.300          | -0.5796 | 0.300            | -0.4821 |
| 0.350           | -0.5534 | 0.350          | -0.5562 | 0.350            | -0.4915 |
| 0.400           | -0.5087 | 0.400          | -0.5514 | 0.400            | -0.4774 |
| 0.450           | -0.4582 | 0.450          | -0.5038 | 0.450            | -0.4602 |
| 0.500           | -0.4518 | 0.500          | -0.4928 | 0.500            | -0.4347 |
| 0.550           | -0.3993 | 0.550          | -0.4928 | 0.550            | -0.4484 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3981 | 0.005 | 0.3720 | 0.005 | 0.2542  |
| 0.010 | 0.1359 | 0.010 | 0.0564 | 0.010 | -0.1347 |

Flight 14 Test point 2

Sweep, deg = 20.1 Mach = 0.60 hp, ft = 9800. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 367.2 Rnpu = 3521000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9777  | 0.000                    | 1.0204  | 0.000                      | 1.0188  |
| 0.005                       | 0.0597  | 0.005                    | 0.1739  | 0.005                      | 0.5037  |
| 0.010                       | -0.2186 | 0.010                    | -0.1021 | 0.010                      | 0.2045  |
| 0.020                       | -0.4524 | 0.020                    | -0.3424 | 0.020                      | -0.1456 |
| 0.040                       | -0.5825 | 0.040                    | -0.4701 | 0.040                      | -0.2973 |
| 0.060                       | -0.6023 | 0.060                    | -0.4942 | 0.060                      | -0.3715 |
| 0.080                       | -0.6063 | 0.080                    | -0.5126 | 0.080                      | -0.3903 |
| 0.100                       | -0.5994 | 0.100                    | -0.5228 | 0.100                      | -0.4017 |
| 0.125                       | -0.5317 | 0.125                    | -0.5270 | 0.125                      | -0.4091 |
| 0.150                       | -0.6059 | 0.150                    | -0.5433 | 0.150                      | -0.4313 |
| 0.175                       | -0.5889 | 0.175                    | -0.5605 | 0.175                      | -0.4495 |
| 0.200                       | -0.6190 | 0.200                    | -0.5742 | 0.200                      | -0.4536 |
| 0.250                       | -0.6226 | 0.250                    | -0.5999 | 0.250                      | -0.4856 |
| 0.300                       | -0.6063 | 0.300                    | -0.5898 | 0.300                      | -0.4905 |
| 0.350                       | -0.5560 | 0.350                    | -0.5502 | 0.350                      | -0.4938 |
| 0.400                       | -0.5084 | 0.400                    | -0.5485 | 0.400                      | -0.4756 |
| 0.450                       | -0.4547 | 0.450                    | -0.5012 | 0.450                      | -0.4530 |
| 0.500                       | -0.4454 | 0.500                    | -0.4883 | 0.500                      | -0.4303 |
| 0.550                       | -0.3906 | 0.550                    | -0.4840 | 0.550                      | -0.4423 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4394 | 0.005 | 0.3954 | 0.005 | 0.2587  |
| 0.010 | 0.1724 | 0.010 | 0.0654 | 0.010 | -0.1472 |

Flight 14 Test point 3

Sweep, deg = 20.4 Mach = 0.60 hp, ft = 9900. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 367.4 Rnpu = 3521000.

Upper surface

| BL 200.8        |         | BL 260         |         | BL 320           |         |
|-----------------|---------|----------------|---------|------------------|---------|
| Inboard station |         | Middle station |         | Outboard station |         |
| x/c             | Cp      | x/c            | Cp      | x/c              | Cp      |
| 0.000           | 0.9220  | 0.000          | 0.9627  | 0.000            | 0.9578  |
| 0.005           | 0.0353  | 0.005          | 0.1182  | 0.005            | 0.4371  |
| 0.010           | -0.2332 | 0.010          | -0.1446 | 0.010            | 0.1432  |
| 0.020           | -0.4548 | 0.020          | -0.3722 | 0.020            | -0.1931 |
| 0.040           | -0.5769 | 0.040          | -0.4921 | 0.040            | -0.3327 |
| 0.060           | -0.5940 | 0.060          | -0.5123 | 0.060            | -0.3961 |
| 0.080           | -0.5974 | 0.080          | -0.5274 | 0.080            | -0.4118 |
| 0.100           | -0.5984 | 0.100          | -0.5309 | 0.100            | -0.4236 |
| 0.125           | -0.5280 | 0.125          | -0.5333 | 0.125            | -0.4268 |
| 0.150           | -0.5992 | 0.150          | -0.5484 | 0.150            | -0.4365 |
| 0.175           | -0.5812 | 0.175          | -0.5573 | 0.175            | -0.4501 |
| 0.200           | -0.6098 | 0.200          | -0.5687 | 0.200            | -0.4477 |
| 0.250           | -0.6146 | 0.250          | -0.5977 | 0.250            | -0.4904 |
| 0.300           | -0.6010 | 0.300          | -0.5819 | 0.300            | -0.4848 |
| 0.350           | -0.5550 | 0.350          | -0.5567 | 0.350            | -0.4912 |
| 0.400           | -0.5082 | 0.400          | -0.5513 | 0.400            | -0.4786 |
| 0.450           | -0.4558 | 0.450          | -0.5045 | 0.450            | -0.4593 |
| 0.500           | -0.4504 | 0.500          | -0.4942 | 0.500            | -0.4326 |
| 0.550           | -0.3984 | 0.550          | -0.4921 | 0.550            | -0.4486 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3997 | 0.005 | 0.3810 | 0.005 | 0.2601  |
| 0.010 | 0.1426 | 0.010 | 0.0645 | 0.010 | -0.1247 |

Flight 14 Test point 4

Sweep, deg = 20.1 Mach = 0.60 hp, ft = 9800. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 368.2 Rnpu = 3527000.

Upper surface

| BL 200.8        |         | BL 260         |         | BL 320           |         |
|-----------------|---------|----------------|---------|------------------|---------|
| Inboard station |         | Middle station |         | Outboard station |         |
| x/c             | Cp      | x/c            | Cp      | x/c              | Cp      |
| 0.000           | 0.9770  | 0.000          | 1.0173  | 0.000            | 1.0168  |
| 0.005           | 0.0338  | 0.005          | 0.1510  | 0.005            | 0.4857  |
| 0.010           | -0.2469 | 0.010          | -0.1245 | 0.010            | 0.1844  |
| 0.020           | -0.4751 | 0.020          | -0.3625 | 0.020            | -0.1685 |
| 0.040           | -0.6013 | 0.040          | -0.4857 | 0.040            | -0.3145 |
| 0.060           | -0.6171 | 0.060          | -0.5118 | 0.060            | -0.3842 |
| 0.080           | -0.6214 | 0.080          | -0.5297 | 0.080            | -0.4012 |
| 0.100           | -0.6166 | 0.100          | -0.5368 | 0.100            | -0.4163 |
| 0.125           | -0.5439 | 0.125          | -0.5375 | 0.125            | -0.4207 |
| 0.150           | -0.6158 | 0.150          | -0.5546 | 0.150            | -0.4400 |
| 0.175           | -0.5937 | 0.175          | -0.5702 | 0.175            | -0.4550 |
| 0.200           | -0.6258 | 0.200          | -0.5839 | 0.200            | -0.4570 |
| 0.250           | -0.6303 | 0.250          | -0.6122 | 0.250            | -0.4956 |
| 0.300           | -0.6132 | 0.300          | -0.5911 | 0.300            | -0.4994 |
| 0.350           | -0.5644 | 0.350          | -0.5544 | 0.350            | -0.5009 |
| 0.400           | -0.5146 | 0.400          | -0.5497 | 0.400            | -0.4787 |
| 0.450           | -0.4580 | 0.450          | -0.5047 | 0.450            | -0.4578 |
| 0.500           | -0.4482 | 0.500          | -0.4925 | 0.500            | -0.4332 |
| 0.550           | -0.3933 | 0.550          | -0.4389 | 0.550            | -0.4445 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4562 | 0.005 | 0.4151 | 0.005 | 0.2781  |
| 0.010 | 0.1932 | 0.010 | 0.0865 | 0.010 | -0.1256 |



Flight 14 Test point 5

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 497.7 Rnpu = 4142000

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9553  | 0.000                    | 0.9875  | 0.000                      | 0.9687  |
| 0.005                       | 0.3021  | 0.005                    | 0.3662  | 0.005                      | 0.6097  |
| 0.010                       | 0.0299  | 0.010                    | 0.1051  | 0.010                      | 0.3456  |
| 0.020                       | -0.2249 | 0.020                    | -0.1575 | 0.020                      | -0.0009 |
| 0.040                       | -0.4036 | 0.040                    | -0.3319 | 0.040                      | -0.1893 |
| 0.060                       | -0.4660 | 0.060                    | -0.3960 | 0.060                      | -0.2929 |
| 0.080                       | -0.5084 | 0.080                    | -0.4457 | 0.080                      | -0.3353 |
| 0.100                       | -0.5378 | 0.100                    | -0.4712 | 0.100                      | -0.3628 |
| 0.125                       | -0.5030 | 0.125                    | -0.4883 | 0.125                      | -0.3823 |
| 0.150                       | -0.5843 | 0.150                    | -0.5203 | 0.150                      | -0.4072 |
| 0.175                       | -0.5830 | 0.175                    | -0.5608 | 0.175                      | -0.4372 |
| 0.200                       | -0.6335 | 0.200                    | -0.5828 | 0.200                      | -0.4438 |
| 0.250                       | -0.6480 | 0.250                    | -0.6253 | 0.250                      | -0.5066 |
| 0.300                       | -0.6438 | 0.300                    | -0.6328 | 0.300                      | -0.5196 |
| 0.350                       | -0.5984 | 0.350                    | -0.6134 | 0.350                      | -0.5374 |
| 0.400                       | -0.5493 | 0.400                    | -0.5925 | 0.400                      | -0.5226 |
| 0.450                       | -0.4913 | 0.450                    | -0.5485 | 0.450                      | -0.5017 |
| 0.500                       | -0.4781 | 0.500                    | -0.5320 | 0.500                      | -0.4655 |
| 0.550                       | -0.4239 | 0.550                    | -0.5270 | 0.550                      | -0.4603 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2413  | 0.005 | 0.2169  | 0.005 | 0.1086  |
| 0.010 | -0.0425 | 0.010 | -0.1387 | 0.010 | -0.3322 |

Flight 14 Test point 6

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 498.0 Rnpu = 4145000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9572  | 0.000                    | 0.9870  | 0.000                      | 0.9729  |
| 0.005                       | 0.2924  | 0.005                    | 0.3600  | 0.005                      | 0.6072  |
| 0.010                       | 0.0177  | 0.010                    | 0.0944  | 0.010                      | 0.3427  |
| 0.020                       | -0.2403 | 0.020                    | -0.1683 | 0.020                      | -0.0058 |
| 0.040                       | -0.4181 | 0.040                    | -0.3427 | 0.040                      | -0.1966 |
| 0.060                       | -0.4816 | 0.060                    | -0.4047 | 0.060                      | -0.2987 |
| 0.080                       | -0.5224 | 0.080                    | -0.4513 | 0.080                      | -0.3395 |
| 0.100                       | -0.5468 | 0.100                    | -0.4785 | 0.100                      | -0.3656 |
| 0.125                       | -0.5080 | 0.125                    | -0.4978 | 0.125                      | -0.3858 |
| 0.150                       | -0.5879 | 0.150                    | -0.5286 | 0.150                      | -0.4126 |
| 0.175                       | -0.5866 | 0.175                    | -0.5611 | 0.175                      | -0.4419 |
| 0.200                       | -0.6416 | 0.200                    | -0.5870 | 0.200                      | -0.4468 |
| 0.250                       | -0.6572 | 0.250                    | -0.6292 | 0.250                      | -0.5100 |
| 0.300                       | -0.6494 | 0.300                    | -0.6388 | 0.300                      | -0.5200 |
| 0.350                       | -0.5998 | 0.350                    | -0.6156 | 0.350                      | -0.5364 |
| 0.400                       | -0.5514 | 0.400                    | -0.6007 | 0.400                      | -0.5234 |
| 0.450                       | -0.4954 | 0.450                    | -0.5521 | 0.450                      | -0.5017 |
| 0.500                       | -0.4821 | 0.500                    | -0.5343 | 0.500                      | -0.4673 |
| 0.550                       | -0.4278 | 0.550                    | -0.5263 | 0.550                      | -0.4647 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2554  | 0.005 | 0.2289  | 0.005 | 0.1177  |
| 0.010 | -0.0284 | 0.010 | -0.1249 | 0.010 | -0.3234 |

Flight 14 Test point 7

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 10200. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 495.6 R<sub>pu</sub> = 4126000.

Upper surface

| BL 200.8        |                | BL 260         |                | \$ 320           |                |
|-----------------|----------------|----------------|----------------|------------------|----------------|
| Inboard station |                | Middle station |                | Outboard station |                |
| x/c             | C <sub>p</sub> | x/c            | C <sub>p</sub> | x/c              | C <sub>p</sub> |
| 0.000           | 0.9459         | 0.000          | 0.9771         | 0.000            | 0.9782         |
| 0.005           | -0.0056        | 0.005          | 0.0701         | 0.005            | 0.3823         |
| 0.010           | -0.2893        | 0.010          | -0.2133        | 0.010            | 0.0696         |
| 0.020           | -0.5464        | 0.020          | -0.4695        | 0.020            | -0.3011        |
| 0.040           | -0.7139        | 0.040          | -0.6144        | 0.040            | -0.4570        |
| 0.060           | -0.7430        | 0.060          | -0.6435        | 0.060            | -0.5343        |
| 0.080           | -0.7532        | 0.080          | -0.6821        | 0.080            | -0.5491        |
| 0.100           | -0.7636        | 0.100          | -0.6913        | 0.100            | -0.5601        |
| 0.125           | -0.6643        | 0.125          | -0.6848        | 0.125            | -0.5426        |
| 0.150           | -0.7594        | 0.150          | -0.7018        | 0.150            | -0.5705        |
| 0.175           | -0.7320        | 0.175          | -0.7268        | 0.175            | -0.5983        |
| 0.200           | -0.7956        | 0.200          | -0.7495        | 0.200            | -0.5945        |
| 0.250           | -0.7904        | 0.250          | -0.7854        | 0.250            | -0.6386        |
| 0.300           | -0.7625        | 0.300          | -0.7565        | 0.300            | -0.6312        |
| 0.350           | -0.6889        | 0.350          | -0.7105        | 0.350            | -0.6306        |
| 0.400           | -0.6180        | 0.400          | -0.6760        | 0.400            | -0.5993        |
| 0.450           | -0.5458        | 0.450          | -0.6120        | 0.450            | -0.5642        |
| 0.500           | -0.5244        | 0.500          | -0.5814        | 0.500            | -0.5140        |
| 0.550           | -0.4570        | 0.550          | -0.5653        | 0.550            | -0.4973        |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5062 | 0.005 | 0.4950 | 0.005 | 0.4056 |
| 0.010 | 0.2536 | 0.010 | 0.1876 | 0.010 | 0.0355 |

Flight 14 Test point 8

Sweep, deg = 25.5 Mach = 0.70 hp, ft = 10100. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = 0.1 QBAK, lb/ft<sup>2</sup> = 498.5 Rnpu = 4142000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8737  | 0.000                    | 0.9035  | 0.000                      | 0.8941  |
| 0.005                       | 0.2492  | 0.005                    | 0.3047  | 0.005                      | 0.5390  |
| 0.010                       | -0.0039 | 0.010                    | 0.0578  | 0.010                      | 0.2897  |
| 0.020                       | -0.2385 | 0.020                    | -0.1819 | 0.020                      | -0.0335 |
| 0.040                       | -0.3973 | 0.040                    | -0.3287 | 0.040                      | -0.2052 |
| 0.060                       | -0.4496 | 0.060                    | -0.3801 | 0.060                      | -0.2894 |
| 0.080                       | -0.4837 | 0.080                    | -0.4210 | 0.080                      | -0.3194 |
| 0.100                       | -0.5056 | 0.100                    | -0.4442 | 0.100                      | -0.3424 |
| 0.125                       | -0.4718 | 0.125                    | -0.4584 | 0.125                      | -0.3587 |
| 0.150                       | -0.5418 | 0.150                    | -0.4916 | 0.150                      | -0.3894 |
| 0.175                       | -0.5421 | 0.175                    | -0.5198 | 0.175                      | -0.4176 |
| 0.200                       | -0.5840 | 0.200                    | -0.5393 | 0.200                      | -0.4283 |
| 0.250                       | -0.5963 | 0.250                    | -0.5774 | 0.250                      | -0.4770 |
| 0.300                       | -0.5940 | 0.300                    | -0.5780 | 0.300                      | -0.4829 |
| 0.350                       | -0.5509 | 0.350                    | -0.5574 | 0.350                      | -0.4924 |
| 0.400                       | -0.5090 | 0.400                    | -0.5486 | 0.400                      | -0.4783 |
| 0.450                       | -0.4603 | 0.450                    | -0.5096 | 0.450                      | -0.4597 |
| 0.500                       | -0.4501 | 0.500                    | -0.4941 | 0.500                      | -0.4283 |
| 0.550                       | -0.3994 | 0.550                    | -0.4900 | 0.550                      | -0.4377 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2200  | 0.005 | 0.2062  | 0.005 | 0.1016  |
| 0.010 | -0.0437 | 0.010 | -0.1199 | 0.010 | -0.3015 |

Flight 14 Test point 9

Sweep, deg = 25.4 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 497.1 Rnpu = 4139000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8793  | 0.000                    | 0.9099  | 0.000                      | 0.8972  |
| 0.005                       | 0.1698  | 0.005                    | 0.2325  | 0.005                      | 0.4857  |
| 0.010                       | -0.0851 | 0.010                    | -0.0176 | 0.010                      | 0.2244  |
| 0.020                       | -0.3178 | 0.020                    | -0.2559 | 0.020                      | -0.1026 |
| 0.040                       | -0.4674 | 0.040                    | -0.4010 | 0.040                      | -0.2638 |
| 0.060                       | -0.5111 | 0.060                    | -0.4459 | 0.060                      | -0.3422 |
| 0.080                       | -0.5334 | 0.080                    | -0.4722 | 0.080                      | -0.3599 |
| 0.100                       | -0.5546 | 0.100                    | -0.4924 | 0.100                      | -0.3832 |
| 0.125                       | -0.5092 | 0.125                    | -0.4989 | 0.125                      | -0.3986 |
| 0.150                       | -0.5820 | 0.150                    | -0.5288 | 0.150                      | -0.4259 |
| 0.175                       | -0.5732 | 0.175                    | -0.5532 | 0.175                      | -0.4518 |
| 0.200                       | -0.6167 | 0.200                    | -0.5727 | 0.200                      | -0.4561 |
| 0.250                       | -0.6254 | 0.250                    | -0.6113 | 0.250                      | -0.5008 |
| 0.300                       | -0.6164 | 0.300                    | -0.6090 | 0.300                      | -0.5038 |
| 0.350                       | -0.5706 | 0.350                    | -0.5841 | 0.350                      | -0.5151 |
| 0.400                       | -0.5239 | 0.400                    | -0.5659 | 0.400                      | -0.4975 |
| 0.450                       | -0.4722 | 0.450                    | -0.5224 | 0.450                      | -0.4764 |
| 0.500                       | -0.4610 | 0.500                    | -0.5032 | 0.500                      | -0.4393 |
| 0.550                       | -0.4078 | 0.550                    | -0.4983 | 0.550                      | -0.4433 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2976 | 0.005 | 0.2822  | 0.005 | 0.1820  |
| 0.010 | 0.0439 | 0.010 | -0.0301 | 0.010 | -0.2013 |

Flight 14 Test point 10

Sweep, deg = 25.4 Mach = 0.70 hp, ft = 10100. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 496.1 Rrho = 4131000.

Upper surface

| BL 200.8<br>Inboard station |         | RL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8594  | 0.000                    | 0.8868  | 0.000                      | 0.8930  |
| 0.005                       | -0.0572 | 0.005                    | 0.0072  | 0.005                      | 0.3096  |
| 0.010                       | -0.3187 | 0.010                    | -0.2554 | 0.010                      | 0.0182  |
| 0.020                       | -0.5501 | 0.020                    | -0.4833 | 0.020                      | -0.3118 |
| 0.040                       | -0.6674 | 0.040                    | -0.6047 | 0.040                      | -0.4432 |
| 0.060                       | -0.6852 | 0.060                    | -0.6224 | 0.060                      | -0.5065 |
| 0.080                       | -0.6936 | 0.080                    | -0.6360 | 0.080                      | -0.5209 |
| 0.100                       | -0.6988 | 0.100                    | -0.6369 | 0.100                      | -0.5253 |
| 0.125                       | -0.6145 | 0.125                    | -0.6284 | 0.125                      | -0.5225 |
| 0.150                       | -0.6987 | 0.150                    | -0.6465 | 0.150                      | -0.5387 |
| 0.175                       | -0.6716 | 0.175                    | -0.6665 | 0.175                      | -0.5565 |
| 0.200                       | -0.7203 | 0.200                    | -0.6812 | 0.200                      | -0.5537 |
| 0.250                       | -0.7135 | 0.250                    | -0.7038 | 0.250                      | -0.5886 |
| 0.300                       | -0.6916 | 0.300                    | -0.6861 | 0.300                      | -0.5768 |
| 0.350                       | -0.6282 | 0.350                    | -0.6488 | 0.350                      | -0.5754 |
| 0.400                       | -0.5711 | 0.400                    | -0.6197 | 0.400                      | -0.5453 |
| 0.450                       | -0.5095 | 0.450                    | -0.5665 | 0.450                      | -0.5137 |
| 0.500                       | -0.4936 | 0.500                    | -0.5378 | 0.500                      | -0.4700 |
| 0.550                       | -0.4295 | 0.550                    | -0.5237 | 0.550                      | -0.4655 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4695 | 0.005 | 0.4628 | 0.005 | 0.3861 |
| 0.010 | 0.2361 | 0.010 | 0.1836 | 0.010 | 0.0554 |

Flight 14 Test point 11

Sweep, deg = 30.1 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 498.9 Rnpu = 4149000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7924  | 0.000                    | 0.8222  | 0.000                      | 0.8148  |
| 0.005                       | 0.1613  | 0.005                    | 0.2094  | 0.005                      | 0.4421  |
| 0.010                       | -0.0711 | 0.010                    | -0.0154 | 0.010                      | 0.2039  |
| 0.020                       | -0.2705 | 0.020                    | -0.2315 | 0.020                      | -0.0947 |
| 0.040                       | -0.4167 | 0.040                    | -0.3440 | 0.040                      | -0.2220 |
| 0.060                       | -0.4532 | 0.060                    | -0.3983 | 0.060                      | -0.3048 |
| 0.080                       | -0.4778 | 0.080                    | -0.4234 | 0.080                      | -0.3319 |
| 0.100                       | -0.4921 | 0.100                    | -0.4452 | 0.100                      | -0.3503 |
| 0.125                       | -0.4488 | 0.125                    | -0.4510 | 0.125                      | -0.3618 |
| 0.150                       | -0.5160 | 0.150                    | -0.4748 | 0.150                      | -0.3853 |
| 0.175                       | -0.5100 | 0.175                    | -0.4942 | 0.175                      | -0.4081 |
| 0.200                       | -0.5456 | 0.200                    | -0.5126 | 0.200                      | -0.4104 |
| 0.250                       | -0.5541 | 0.250                    | -0.5392 | 0.250                      | -0.4522 |
| 0.300                       | -0.5478 | 0.300                    | -0.5358 | 0.300                      | -0.4509 |
| 0.350                       | -0.5082 | 0.350                    | -0.5150 | 0.350                      | -0.4587 |
| 0.400                       | -0.4704 | 0.400                    | -0.5049 | 0.400                      | -0.4450 |
| 0.450                       | -0.4275 | 0.450                    | -0.4674 | 0.450                      | -0.4250 |
| 0.500                       | -0.4201 | 0.500                    | -0.4560 | 0.500                      | -0.3986 |
| 0.550                       | -0.3764 | 0.550                    | -0.4538 | 0.550                      | -0.4151 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2304  | 0.005 | 0.2229  | 0.005 | 0.1311  |
| 0.010 | -0.0067 | 0.010 | -0.0655 | 0.010 | -0.2256 |

Flight 14 Test point 12

Sweep, deg = 30.1 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 502.0 Rnpu = 4163000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7963  | 0.000                    | 0.8252  | 0.000                      | 0.8172  |
| 0.005                       | 0.1253  | 0.005                    | 0.1709  | 0.005                      | 0.4087  |
| 0.010                       | -0.1087 | 0.010                    | -0.0593 | 0.010                      | 0.1636  |
| 0.020                       | -0.3061 | 0.020                    | -0.2697 | 0.020                      | -0.1362 |
| 0.040                       | -0.4475 | 0.040                    | -0.3772 | 0.040                      | -0.2578 |
| 0.060                       | -0.4816 | 0.060                    | -0.4274 | 0.060                      | -0.3339 |
| 0.080                       | -0.5036 | 0.080                    | -0.4606 | 0.080                      | -0.3579 |
| 0.100                       | -0.5166 | 0.100                    | -0.4716 | 0.100                      | -0.3733 |
| 0.125                       | -0.4696 | 0.125                    | -0.4744 | 0.125                      | -0.3835 |
| 0.150                       | -0.5367 | 0.150                    | -0.4955 | 0.150                      | -0.4049 |
| 0.175                       | -0.5266 | 0.175                    | -0.5153 | 0.175                      | -0.4244 |
| 0.200                       | -0.5619 | 0.200                    | -0.5277 | 0.200                      | -0.4275 |
| 0.250                       | -0.5680 | 0.250                    | -0.5573 | 0.250                      | -0.4634 |
| 0.300                       | -0.5615 | 0.300                    | -0.5535 | 0.300                      | -0.4640 |
| 0.350                       | -0.5190 | 0.350                    | -0.5267 | 0.350                      | -0.4707 |
| 0.400                       | -0.4798 | 0.400                    | -0.5147 | 0.400                      | -0.4545 |
| 0.450                       | -0.4340 | 0.450                    | -0.4773 | 0.450                      | -0.4324 |
| 0.500                       | -0.4241 | 0.500                    | -0.4615 | 0.500                      | -0.4037 |
| 0.550                       | -0.3811 | 0.550                    | -0.4585 | 0.550                      | -0.4174 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2674 | 0.005 | 0.2683  | 0.005 | 0.1792  |
| 0.010 | 0.0348 | 0.010 | -0.0162 | 0.010 | -0.1635 |



Flight 14 Test point 13

Sweep, deg = 30.1 Mach = 0.70 hp, ft = 10100. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 503.5 Rrho = 4165000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7819  | 0.000                    | 0.8106  | 0.000                      | 0.8161  |
| 0.005                       | -0.0463 | 0.005                    | 0.0040  | 0.005                      | 0.2867  |
| 0.010                       | -0.2860 | 0.010                    | -0.2345 | 0.010                      | 0.0234  |
| 0.020                       | -0.4790 | 0.020                    | -0.4385 | 0.020                      | -0.2815 |
| 0.040                       | -0.5963 | 0.040                    | -0.5181 | 0.040                      | -0.4014 |
| 0.060                       | -0.6137 | 0.060                    | -0.5522 | 0.060                      | -0.4594 |
| 0.080                       | -0.6200 | 0.080                    | -0.5766 | 0.080                      | -0.4677 |
| 0.100                       | -0.6205 | 0.100                    | -0.5777 | 0.100                      | -0.4737 |
| 0.125                       | -0.5474 | 0.125                    | -0.5676 | 0.125                      | -0.4693 |
| 0.150                       | -0.6202 | 0.150                    | -0.5833 | 0.150                      | -0.4852 |
| 0.175                       | -0.5995 | 0.175                    | -0.5966 | 0.175                      | -0.4994 |
| 0.200                       | -0.6384 | 0.200                    | -0.6058 | 0.200                      | -0.4975 |
| 0.250                       | -0.6339 | 0.250                    | -0.6270 | 0.250                      | -0.5246 |
| 0.300                       | -0.6185 | 0.300                    | -0.6121 | 0.300                      | -0.5172 |
| 0.350                       | -0.5675 | 0.350                    | -0.5790 | 0.350                      | -0.5151 |
| 0.400                       | -0.5161 | 0.400                    | -0.5589 | 0.400                      | -0.4917 |
| 0.450                       | -0.4642 | 0.450                    | -0.5130 | 0.450                      | -0.4628 |
| 0.500                       | -0.4526 | 0.500                    | -0.4899 | 0.500                      | -0.4269 |
| 0.550                       | -0.3988 | 0.550                    | -0.4819 | 0.550                      | -0.4338 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4003 | 0.005 | 0.4041 | 0.005 | 0.3324 |
| 0.010 | 0.1825 | 0.010 | 0.1439 | 0.010 | 0.0323 |

Flight 14 Test point 14

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 503.1 Rnpu = 4169000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7165  | 0.000                    | 0.7417  | 0.000                      | 0.7392  |
| 0.005                       | 0.1658  | 0.005                    | 0.1431  | 0.005                      | 0.3642  |
| 0.010                       | -0.1094 | 0.010                    | -0.0606 | 0.010                      | 0.1450  |
| 0.020                       | -0.2982 | 0.020                    | -0.2583 | 0.020                      | -0.1218 |
| 0.040                       | -0.4148 | 0.040                    | -0.3566 | 0.040                      | -0.2468 |
| 0.060                       | -0.4409 | 0.060                    | -0.3958 | 0.060                      | -0.3132 |
| 0.080                       | -0.4549 | 0.080                    | -0.4172 | 0.080                      | -0.3297 |
| 0.100                       | -0.4638 | 0.100                    | -0.4270 | 0.100                      | -0.3422 |
| 0.125                       | -0.4234 | 0.125                    | -0.4309 | 0.125                      | -0.3484 |
| 0.150                       | -0.4821 | 0.150                    | -0.4493 | 0.150                      | -0.3675 |
| 0.175                       | -0.4745 | 0.175                    | -0.4631 | 0.175                      | -0.3853 |
| 0.200                       | -0.5032 | 0.200                    | -0.4746 | 0.200                      | -0.3864 |
| 0.250                       | -0.5084 | 0.250                    | -0.4961 | 0.250                      | -0.4198 |
| 0.300                       | -0.5023 | 0.300                    | -0.4902 | 0.300                      | -0.4167 |
| 0.350                       | -0.4665 | 0.350                    | -0.4712 | 0.350                      | -0.4216 |
| 0.400                       | -0.4330 | 0.400                    | -0.4600 | 0.400                      | -0.4079 |
| 0.450                       | -0.3922 | 0.450                    | -0.4285 | 0.450                      | -0.3910 |
| 0.500                       | -0.3873 | 0.500                    | -0.4183 | 0.500                      | -0.3873 |
| 0.550                       | -0.3444 | 0.550                    | -0.4191 | 0.550                      | -0.3867 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2350 | 0.005 | 0.2390  | 0.005 | 0.1541  |
| 0.010 | 0.0236 | 0.010 | -0.0196 | 0.010 | -0.1427 |

Flight 14 Test point 15

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 10100. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 496.4 Rnpu = 4136000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.6998  | 0.000                    | 0.7218  | 0.000                      | 0.7295  |
| 0.005                       | -0.1048 | 0.005                    | -0.0639 | 0.005                      | 0.1988  |
| 0.010                       | -0.3255 | 0.010                    | -0.2709 | 0.010                      | -0.0474 |
| 0.020                       | -0.5004 | 0.020                    | -0.4560 | 0.020                      | -0.3181 |
| 0.040                       | -0.5849 | 0.040                    | -0.5190 | 0.040                      | -0.4095 |
| 0.060                       | -0.5824 | 0.060                    | -0.5394 | 0.060                      | -0.4487 |
| 0.080                       | -0.5797 | 0.080                    | -0.5455 | 0.080                      | -0.4532 |
| 0.100                       | -0.5753 | 0.100                    | -0.5403 | 0.100                      | -0.4548 |
| 0.125                       | -0.5076 | 0.125                    | -0.5311 | 0.125                      | -0.4472 |
| 0.150                       | -0.5691 | 0.150                    | -0.5433 | 0.150                      | -0.4552 |
| 0.175                       | -0.5468 | 0.175                    | -0.5498 | 0.175                      | -0.4664 |
| 0.200                       | -0.5761 | 0.200                    | -0.5549 | 0.200                      | -0.4614 |
| 0.250                       | -0.5715 | 0.250                    | -0.5700 | 0.250                      | -0.4839 |
| 0.300                       | -0.5599 | 0.300                    | -0.5525 | 0.300                      | -0.4746 |
| 0.350                       | -0.5133 | 0.350                    | -0.5215 | 0.350                      | -0.4700 |
| 0.400                       | -0.4702 | 0.400                    | -0.5031 | 0.400                      | -0.4480 |
| 0.450                       | -0.4232 | 0.450                    | -0.4630 | 0.450                      | -0.4207 |
| 0.500                       | -0.4108 | 0.500                    | -0.4477 | 0.500                      | -0.3908 |
| 0.550                       | -0.3626 | 0.550                    | -0.4456 | 0.550                      | -0.4018 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3906 | 0.005 | 0.3989 | 0.005 | 0.3345 |
| 0.010 | 0.1074 | 0.010 | 0.1680 | 0.010 | 0.0728 |

Flight 14 Test point 16

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 9900. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 500.8 R<sub>pu</sub> = 4161000.

Upper surface

| BL 200.8        |         | BL 260         |         | BL 320           |         |
|-----------------|---------|----------------|---------|------------------|---------|
| Inboard station |         | Middle station |         | Outboard station |         |
| x/c             | Cp      | x/c            | Cp      | x/c              | Cp      |
| 0.000           | 0.7198  | 0.000          | 0.7452  | 0.000            | 0.7389  |
| 0.005           | 0.1279  | 0.005          | 0.1657  | 0.005            | 0.3847  |
| 0.010           | -0.0850 | 0.010          | -0.0348 | 0.010            | 0.1071  |
| 0.020           | -0.2724 | 0.020          | -0.2357 | 0.020            | -0.0990 |
| 0.040           | -0.3943 | 0.040          | -0.3357 | 0.040            | -0.2296 |
| 0.060           | -0.4244 | 0.060          | -0.3778 | 0.060            | -0.2935 |
| 0.080           | -0.4419 | 0.080          | -0.4021 | 0.080            | -0.3142 |
| 0.100           | -0.4512 | 0.100          | -0.4148 | 0.100            | -0.3274 |
| 0.125           | -0.4129 | 0.125          | -0.4181 | 0.125            | -0.3383 |
| 0.150           | -0.4710 | 0.150          | -0.4374 | 0.150            | -0.3556 |
| 0.175           | -0.4648 | 0.175          | -0.4519 | 0.175            | -0.3749 |
| 0.200           | -0.4947 | 0.200          | -0.4653 | 0.200            | -0.3737 |
| 0.250           | -0.5006 | 0.250          | -0.4884 | 0.250            | -0.4100 |
| 0.300           | -0.4970 | 0.300          | -0.4831 | 0.300            | -0.4072 |
| 0.350           | -0.4618 | 0.350          | -0.4622 | 0.350            | -0.4161 |
| 0.400           | -0.4262 | 0.400          | -0.4539 | 0.400            | -0.4023 |
| 0.450           | -0.3891 | 0.450          | -0.4229 | 0.450            | -0.3867 |
| 0.500           | -0.3834 | 0.500          | -0.4144 | 0.500            | -0.3624 |
| 0.550           | -0.3410 | 0.550          | -0.4169 | 0.550            | -0.3833 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2149 | 0.005 | 0.2183  | 0.005 | 0.1302  |
| 0.010 | 0.0035 | 0.010 | -0.0404 | 0.010 | -0.1692 |

Flight 14 Test point 17

Sweep, deg = 24.1 Mach = 0.70 hp, ft = 10100. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 500.1 R<sub>npu</sub> = 4150000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9004  | 0.000                    | 0.9299  | 0.000                      | 0.9145  |
| 0.005                       | 0.2918  | 0.005                    | 0.3523  | 0.005                      | 0.5819  |
| 0.010                       | 0.0327  | 0.010                    | 0.1050  | 0.010                      | 0.3332  |
| 0.020                       | -0.2072 | 0.020                    | -0.1468 | 0.020                      | 0.0052  |
| 0.040                       | -0.3883 | 0.040                    | -0.3102 | 0.040                      | -0.1745 |
| 0.060                       | -0.4332 | 0.060                    | -0.3555 | 0.060                      | -0.2741 |
| 0.080                       | -0.4754 | 0.080                    | -0.4040 | 0.080                      | -0.2946 |
| 0.100                       | -0.5015 | 0.100                    | -0.4322 | 0.100                      | -0.3263 |
| 0.125                       | -0.4688 | 0.125                    | -0.4536 | 0.125                      | -0.3501 |
| 0.150                       | -0.5444 | 0.150                    | -0.4860 | 0.150                      | -0.3842 |
| 0.175                       | -0.5421 | 0.175                    | -0.5169 | 0.175                      | -0.4150 |
| 0.200                       | -0.5892 | 0.200                    | -0.5442 | 0.200                      | -0.4217 |
| 0.250                       | -0.6028 | 0.250                    | -0.5847 | 0.250                      | -0.4769 |
| 0.300                       | -0.6034 | 0.300                    | -0.5870 | 0.300                      | -0.4861 |
| 0.350                       | -0.5580 | 0.350                    | -0.5698 | 0.350                      | -0.4996 |
| 0.400                       | -0.5166 | 0.400                    | -0.5571 | 0.400                      | -0.4878 |
| 0.450                       | -0.4679 | 0.450                    | -0.5177 | 0.450                      | -0.4685 |
| 0.500                       | -0.4588 | 0.500                    | -0.5020 | 0.500                      | -0.4390 |
| 0.550                       | -0.4057 | 0.550                    | -0.4991 | 0.550                      | -0.4430 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2016  | 0.005 | 0.1816  | 0.005 | 0.0723  |
| 0.010 | -0.0713 | 0.010 | -0.1602 | 0.010 | -0.3526 |

Flight 14 Test point 18

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 10100. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 494.6 Rnpu = 4124000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9533  | 0.000                    | 0.9845  | 0.000                      | 0.9687  |
| 0.005                       | 0.3131  | 0.005                    | 0.3815  | 0.005                      | 0.6209  |
| 0.010                       | 0.0425  | 0.010                    | 0.1190  | 0.010                      | 0.3599  |
| 0.020                       | -0.2139 | 0.020                    | -0.1415 | 0.020                      | 0.0135  |
| 0.040                       | -0.3950 | 0.040                    | -0.3184 | 0.040                      | -0.1781 |
| 0.060                       | -0.4609 | 0.060                    | -0.3843 | 0.060                      | -0.2831 |
| 0.080                       | -0.5012 | 0.080                    | -0.4327 | 0.080                      | -0.3255 |
| 0.100                       | -0.5296 | 0.100                    | -0.4594 | 0.100                      | -0.3531 |
| 0.125                       | -0.4947 | 0.125                    | -0.4832 | 0.125                      | -0.3725 |
| 0.150                       | -0.5757 | 0.150                    | -0.5177 | 0.150                      | -0.3995 |
| 0.175                       | -0.5748 | 0.175                    | -0.5497 | 0.175                      | -0.4294 |
| 0.200                       | -0.6283 | 0.200                    | -0.5727 | 0.200                      | -0.4358 |
| 0.250                       | -0.6446 | 0.250                    | -0.6166 | 0.250                      | -0.5031 |
| 0.300                       | -0.6410 | 0.300                    | -0.6223 | 0.300                      | -0.5129 |
| 0.350                       | -0.5932 | 0.350                    | -0.6019 | 0.350                      | -0.5296 |
| 0.400                       | -0.5467 | 0.400                    | -0.5894 | 0.400                      | -0.5164 |
| 0.450                       | -0.4910 | 0.450                    | -0.5457 | 0.450                      | -0.4943 |
| 0.500                       | -0.4769 | 0.500                    | -0.5281 | 0.500                      | -0.4616 |
| 0.550                       | -0.4215 | 0.550                    | -0.5248 | 0.550                      | -0.4634 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2303  | 0.005 | 0.2045  | 0.005 | 0.0950  |
| 0.010 | -0.0532 | 0.010 | -0.1518 | 0.010 | -0.3499 |

Flight 14 Test point 19

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 499.0 Rrho = 4147000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0118  | 0.000                    | 1.0417  | 0.000                      | 1.0216  |
| 0.005                       | 0.3620  | 0.005                    | 0.4508  | 0.005                      | 0.6988  |
| 0.010                       | 0.0795  | 0.010                    | 0.1823  | 0.010                      | 0.4339  |
| 0.020                       | -0.1860 | 0.020                    | -0.0906 | 0.020                      | 0.0809  |
| 0.040                       | -0.3774 | 0.040                    | -0.2795 | 0.040                      | -0.1266 |
| 0.060                       | -0.4468 | 0.060                    | -0.3514 | 0.060                      | -0.2393 |
| 0.080                       | -0.4931 | 0.080                    | -0.4011 | 0.080                      | -0.2855 |
| 0.100                       | -0.5237 | 0.100                    | -0.4394 | 0.100                      | -0.3177 |
| 0.125                       | -0.4934 | 0.125                    | -0.4663 | 0.125                      | -0.3439 |
| 0.150                       | -0.5794 | 0.150                    | -0.5047 | 0.150                      | -0.3827 |
| 0.175                       | -0.5801 | 0.175                    | -0.5416 | 0.175                      | -0.4173 |
| 0.200                       | -0.6367 | 0.200                    | -0.5726 | 0.200                      | -0.4364 |
| 0.250                       | -0.6570 | 0.250                    | -0.6272 | 0.250                      | -0.4946 |
| 0.300                       | -0.6513 | 0.300                    | -0.6223 | 0.300                      | -0.4990 |
| 0.350                       | -0.5985 | 0.350                    | -0.6085 | 0.350                      | -0.5266 |
| 0.400                       | -0.5471 | 0.400                    | -0.5961 | 0.400                      | -0.5172 |
| 0.450                       | -0.4906 | 0.450                    | -0.5452 | 0.450                      | -0.5002 |
| 0.500                       | -0.4761 | 0.500                    | -0.5288 | 0.500                      | -0.4649 |
| 0.550                       | -0.4194 | 0.550                    | -0.5218 | 0.550                      | -0.4607 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2556  | 0.005 | 0.2045  | 0.005 | 0.0813  |
| 0.010 | -0.0417 | 0.010 | -0.1718 | 0.010 | -0.3934 |

Flight 14 Test point 20

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 20100. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 332.1 Rnpu = 2937000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9589  | 0.000                    | 0.9973  | 0.000                      | 0.9891  |
| 0.005                       | 0.1654  | 0.005                    | 0.2336  | 0.005                      | 0.5080  |
| 0.010                       | -0.1108 | 0.010                    | -0.0333 | 0.010                      | 0.2178  |
| 0.020                       | -0.3645 | 0.020                    | -0.2919 | 0.020                      | -0.1335 |
| 0.040                       | -0.5470 | 0.040                    | -0.4549 | 0.040                      | -0.3107 |
| 0.060                       | -0.5953 | 0.060                    | -0.5042 | 0.060                      | -0.3977 |
| 0.080                       | -0.6172 | 0.080                    | -0.5392 | 0.080                      | -0.4316 |
| 0.100                       | -0.6332 | 0.100                    | -0.5630 | 0.100                      | -0.4515 |
| 0.125                       | -0.5872 | 0.125                    | -0.5769 | 0.125                      | -0.4626 |
| 0.150                       | -0.6568 | 0.150                    | -0.6063 | 0.150                      | -0.4916 |
| 0.175                       | -0.6481 | 0.175                    | -0.6356 | 0.175                      | -0.5170 |
| 0.200                       | -0.6962 | 0.200                    | -0.6598 | 0.200                      | -0.5133 |
| 0.250                       | -0.7095 | 0.250                    | -0.6982 | 0.250                      | -0.5653 |
| 0.300                       | -0.6912 | 0.300                    | -0.6946 | 0.300                      | -0.5656 |
| 0.350                       | -0.6348 | 0.350                    | -0.6472 | 0.350                      | -0.5761 |
| 0.400                       | -0.5777 | 0.400                    | -0.6294 | 0.400                      | -0.5503 |
| 0.450                       | -0.5136 | 0.450                    | -0.5694 | 0.450                      | -0.5204 |
| 0.500                       | -0.4964 | 0.500                    | -0.5514 | 0.500                      | -0.4808 |
| 0.550                       | -0.4306 | 0.550                    | -0.5356 | 0.550                      | -0.4694 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3769 | 0.005 | 0.3652 | 0.005 | 0.2697  |
| 0.010 | 0.1053 | 0.010 | 0.0317 | 0.010 | -0.1366 |



Flight 14 Test point 21

Sweep, deg = 20.0 Mach = 0.71 hp, ft = 20700. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 327.5 R<sub>pu</sub> = 2894000.

Upper surface

| BL 200.8        |         | BL 260         |         | BL 320           |         |
|-----------------|---------|----------------|---------|------------------|---------|
| Inboard station |         | Middle station |         | Outboard station |         |
| x/c             | Cp      | x/c            | Cp      | x/c              | Cp      |
| 0.000           | 0.9606  | 0.000          | 0.9959  | 0.000            | 0.9886  |
| 0.005           | 0.2431  | 0.005          | 0.3084  | 0.005            | 0.5659  |
| 0.010           | -0.0277 | 0.010          | 0.0475  | 0.010            | 0.2866  |
| 0.020           | -0.2845 | 0.020          | -0.2171 | 0.020            | -0.0604 |
| 0.040           | -0.4732 | 0.040          | -0.3903 | 0.040            | -0.2440 |
| 0.060           | -0.5321 | 0.060          | -0.4442 | 0.060            | -0.3444 |
| 0.080           | -0.5665 | 0.080          | -0.4869 | 0.080            | -0.3810 |
| 0.100           | -0.5850 | 0.100          | -0.5143 | 0.100            | -0.4042 |
| 0.125           | -0.5332 | 0.125          | -0.5348 | 0.125            | -0.4237 |
| 0.150           | -0.6211 | 0.150          | -0.5640 | 0.150            | -0.4566 |
| 0.175           | -0.6190 | 0.175          | -0.5980 | 0.175            | -0.4844 |
| 0.200           | -0.6692 | 0.200          | -0.6253 | 0.200            | -0.4844 |
| 0.250           | -0.6837 | 0.250          | -0.6776 | 0.250            | -0.5410 |
| 0.300           | -0.6739 | 0.300          | -0.6749 | 0.300            | -0.5450 |
| 0.350           | -0.6230 | 0.350          | -0.6334 | 0.350            | -0.5593 |
| 0.400           | -0.5650 | 0.400          | -0.6226 | 0.400            | -0.5424 |
| 0.450           | -0.5064 | 0.450          | -0.5536 | 0.450            | -0.5149 |
| 0.500           | -0.4889 | 0.500          | -0.5416 | 0.500            | -0.4740 |
| 0.550           | -0.4247 | 0.550          | -0.5297 | 0.550            | -0.4628 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3075 | 0.005 | 0.2980  | 0.005 | 0.2004  |
| 0.010 | 0.0279 | 0.010 | -0.0521 | 0.010 | -0.2259 |

Flight 14 Test point 22

Sweep, deg = 20.0 Mach = 0.71 hp, ft = 20000. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 339.4 Rnpu = 2977000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9463  | 0.000                    | 0.9811  | 0.000                      | 0.9869  |
| 0.005                       | -0.0050 | 0.005                    | 0.0632  | 0.005                      | 0.3719  |
| 0.010                       | -0.2865 | 0.010                    | -0.2148 | 0.010                      | 0.0613  |
| 0.020                       | -0.5430 | 0.020                    | -0.4695 | 0.020                      | -0.3112 |
| 0.040                       | -0.7125 | 0.040                    | -0.6206 | 0.040                      | -0.4669 |
| 0.060                       | -0.7485 | 0.060                    | -0.6441 | 0.060                      | -0.5427 |
| 0.080                       | -0.7595 | 0.080                    | -0.6782 | 0.080                      | -0.5599 |
| 0.100                       | -0.7659 | 0.100                    | -0.6940 | 0.100                      | -0.5696 |
| 0.125                       | -0.6658 | 0.125                    | -0.6934 | 0.125                      | -0.5666 |
| 0.150                       | -0.7703 | 0.150                    | -0.7105 | 0.150                      | -0.5910 |
| 0.175                       | -0.7386 | 0.175                    | -0.7423 | 0.175                      | -0.6108 |
| 0.200                       | -0.8038 | 0.200                    | -0.7637 | 0.200                      | -0.6100 |
| 0.250                       | -0.7991 | 0.250                    | -0.8027 | 0.250                      | -0.6499 |
| 0.300                       | -0.7696 | 0.300                    | -0.7873 | 0.300                      | -0.6376 |
| 0.350                       | -0.6930 | 0.350                    | -0.7145 | 0.350                      | -0.6398 |
| 0.400                       | -0.6190 | 0.400                    | -0.6777 | 0.400                      | -0.5984 |
| 0.450                       | -0.5471 | 0.450                    | -0.6101 | 0.450                      | -0.5607 |
| 0.500                       | -0.5213 | 0.500                    | -0.5824 | 0.500                      | -0.5086 |
| 0.550                       | -0.4486 | 0.550                    | -0.5561 | 0.550                      | -0.4836 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5112 | 0.005 | 0.5083 | 0.005 | 0.4286 |
| 0.010 | 0.2582 | 0.010 | 0.2032 | 0.010 | 0.0560 |

Flight 14 Test point 23

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 335.8 Rrho = 2958000.

Upper surface

| BL 200.8        |         | BL 260         |         | BL 320           |         |
|-----------------|---------|----------------|---------|------------------|---------|
| Inboard station |         | Middle station |         | Outboard station |         |
| x/c             | Cp      | x/c            | Cp      | x/c              | Cp      |
| 0.000           | 0.8726  | 0.000          | 0.9093  | 0.000            | 0.9064  |
| 0.005           | 0.0604  | 0.005          | 0.1100  | 0.005            | 0.3899  |
| 0.010           | -0.2001 | 0.010          | -0.1381 | 0.010            | 0.1076  |
| 0.020           | -0.4276 | 0.020          | -0.3723 | 0.020            | -0.2239 |
| 0.040           | -0.5786 | 0.040          | -0.5063 | 0.040            | -0.3713 |
| 0.060           | -0.6110 | 0.060          | -0.5386 | 0.060            | -0.4434 |
| 0.080           | -0.6259 | 0.080          | -0.5666 | 0.080            | -0.4608 |
| 0.100           | -0.6277 | 0.100          | -0.5815 | 0.100            | -0.4686 |
| 0.125           | -0.5584 | 0.125          | -0.5808 | 0.125            | -0.4675 |
| 0.150           | -0.6411 | 0.150          | -0.5958 | 0.150            | -0.4905 |
| 0.175           | -0.6232 | 0.175          | -0.6200 | 0.175            | -0.5193 |
| 0.200           | -0.6712 | 0.200          | -0.6338 | 0.200            | -0.5097 |
| 0.250           | -0.6734 | 0.250          | -0.6719 | 0.250            | -0.5473 |
| 0.300           | -0.6578 | 0.300          | -0.6531 | 0.300            | -0.5439 |
| 0.350           | -0.6055 | 0.350          | -0.6160 | 0.350            | -0.5483 |
| 0.400           | -0.5494 | 0.400          | -0.6011 | 0.400            | -0.5231 |
| 0.450           | -0.4902 | 0.450          | -0.5416 | 0.450            | -0.4962 |
| 0.500           | -0.4745 | 0.500          | -0.5236 | 0.500            | -0.4558 |
| 0.550           | -0.4137 | 0.550          | -0.5074 | 0.550            | -0.4502 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3874 | 0.005 | 0.3914 | 0.005 | 0.3102  |
| 0.010 | 0.1461 | 0.010 | 0.0962 | 0.010 | -0.0489 |

Flight 14 Test point 24

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 337.3 Rnpu = 2968000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8522  | 0.000                    | 0.8804  | 0.000                      | 0.8917  |
| 0.005                       | -0.0960 | 0.005                    | -0.0504 | 0.005                      | 0.2573  |
| 0.010                       | -0.3593 | 0.010                    | -0.3082 | 0.010                      | -0.0483 |
| 0.020                       | -0.5875 | 0.020                    | -0.5382 | 0.020                      | -0.3876 |
| 0.040                       | -0.7205 | 0.040                    | -0.6493 | 0.040                      | -0.5162 |
| 0.060                       | -0.7392 | 0.060                    | -0.6619 | 0.060                      | -0.5639 |
| 0.080                       | -0.7335 | 0.080                    | -0.6807 | 0.080                      | -0.5708 |
| 0.100                       | -0.7271 | 0.100                    | -0.6847 | 0.100                      | -0.5741 |
| 0.125                       | -0.6315 | 0.125                    | -0.6725 | 0.125                      | -0.5558 |
| 0.150                       | -0.7227 | 0.150                    | -0.6805 | 0.150                      | -0.5702 |
| 0.175                       | -0.6892 | 0.175                    | -0.6974 | 0.175                      | -0.5923 |
| 0.200                       | -0.7393 | 0.200                    | -0.7046 | 0.200                      | -0.5809 |
| 0.250                       | -0.7296 | 0.250                    | -0.7350 | 0.250                      | -0.6111 |
| 0.300                       | -0.7073 | 0.300                    | -0.7104 | 0.300                      | -0.5949 |
| 0.350                       | -0.6428 | 0.350                    | -0.6576 | 0.350                      | -0.5903 |
| 0.400                       | -0.5769 | 0.400                    | -0.6329 | 0.400                      | -0.5581 |
| 0.450                       | -0.5135 | 0.450                    | -0.5690 | 0.450                      | -0.5210 |
| 0.500                       | -0.4938 | 0.500                    | -0.5441 | 0.500                      | -0.4722 |
| 0.550                       | -0.4287 | 0.550                    | -0.5241 | 0.550                      | -0.4633 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4962 | 0.005 | 0.5077 | 0.005 | 0.4408 |
| 0.010 | 0.2663 | 0.010 | 0.2339 | 0.010 | 0.1145 |

Flight 14 Test point 25

Sweep, deg = 30.4 Mach = 0.70 hp, ft = 20100. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 332.5 Rnpu = 2942000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7726  | 0.000                    | 0.8049  | 0.000                      | 0.8108  |
| 0.005                       | -0.0492 | 0.005                    | -0.0155 | 0.005                      | 0.2652  |
| 0.010                       | -0.2854 | 0.010                    | -0.2394 | 0.010                      | 0.0004  |
| 0.020                       | -0.4827 | 0.020                    | -0.4424 | 0.020                      | -0.2946 |
| 0.040                       | -0.5968 | 0.040                    | -0.5434 | 0.040                      | -0.4071 |
| 0.060                       | -0.5948 | 0.060                    | -0.5572 | 0.060                      | -0.4618 |
| 0.080                       | -0.6043 | 0.080                    | -0.5614 | 0.080                      | -0.4685 |
| 0.100                       | -0.6023 | 0.100                    | -0.5600 | 0.100                      | -0.4740 |
| 0.125                       | -0.5366 | 0.125                    | -0.5578 | 0.125                      | -0.4671 |
| 0.150                       | -0.6084 | 0.150                    | -0.5774 | 0.150                      | -0.4805 |
| 0.175                       | -0.5870 | 0.175                    | -0.5918 | 0.175                      | -0.4989 |
| 0.200                       | -0.6229 | 0.200                    | -0.5955 | 0.200                      | -0.4910 |
| 0.250                       | -0.6195 | 0.250                    | -0.6202 | 0.250                      | -0.5222 |
| 0.300                       | -0.6028 | 0.300                    | -0.5968 | 0.300                      | -0.5076 |
| 0.350                       | -0.5567 | 0.350                    | -0.5603 | 0.350                      | -0.5063 |
| 0.400                       | -0.5084 | 0.400                    | -0.5470 | 0.400                      | -0.4793 |
| 0.450                       | -0.4552 | 0.450                    | -0.5004 | 0.450                      | -0.4542 |
| 0.500                       | -0.4440 | 0.500                    | -0.4818 | 0.500                      | -0.4197 |
| 0.550                       | -0.3853 | 0.550                    | -0.4687 | 0.550                      | -0.4254 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3935 | 0.005 | 0.4077 | 0.005 | 0.3460 |
| 0.010 | 0.1787 | 0.010 | 0.1494 | 0.010 | 0.0378 |

Flight 14 Test point 26

Sweep, deg = 30.5 Mach = 0.70 hp, ft = 19900. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 336.3 Rnpu = 2967000.

Upper surface

| BL 200.8        |         | BL 260         |         | BL 320           |         |
|-----------------|---------|----------------|---------|------------------|---------|
| Inboard station |         | Middle station |         | Outboard station |         |
| x/c             | Cp      | x/c            | Cp      | x/c              | Cp      |
| 0.000           | 0.7681  | 0.000          | 0.7360  | 0.000            | 0.8083  |
| 0.005           | -0.1081 | 0.005          | -0.0720 | 0.005            | 0.2225  |
| 0.010           | -0.3446 | 0.010          | -0.3028 | 0.010            | -0.0519 |
| 0.020           | -0.5416 | 0.020          | -0.4984 | 0.020            | -0.3493 |
| 0.040           | -0.6506 | 0.040          | -0.5896 | 0.040            | -0.4574 |
| 0.060           | -0.6390 | 0.060          | -0.5925 | 0.060            | -0.4989 |
| 0.080           | -0.6451 | 0.080          | -0.6036 | 0.080            | -0.4994 |
| 0.100           | -0.6356 | 0.100          | -0.5967 | 0.100            | -0.5047 |
| 0.125           | -0.5581 | 0.125          | -0.5862 | 0.125            | -0.4950 |
| 0.150           | -0.6329 | 0.150          | -0.6042 | 0.150            | -0.5084 |
| 0.175           | -0.6111 | 0.175          | -0.6141 | 0.175            | -0.5232 |
| 0.200           | -0.6487 | 0.200          | -0.6205 | 0.200            | -0.5135 |
| 0.250           | -0.6431 | 0.250          | -0.6392 | 0.250            | -0.5353 |
| 0.300           | -0.6239 | 0.300          | -0.6183 | 0.300            | -0.5195 |
| 0.350           | -0.5674 | 0.350          | -0.5839 | 0.350            | -0.5188 |
| 0.400           | -0.5139 | 0.400          | -0.5638 | 0.400            | -0.4923 |
| 0.450           | -0.4599 | 0.450          | -0.5111 | 0.450            | -0.4645 |
| 0.500           | -0.4500 | 0.500          | -0.4871 | 0.500            | -0.4262 |
| 0.550           | -0.3932 | 0.550          | -0.4718 | 0.550            | -0.4292 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4317 | 0.005 | 0.4472 | 0.005 | 0.3873 |
| 0.010 | 0.2221 | 0.010 | 0.1963 | 0.010 | 0.0887 |

Flight 14 Test point 27

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 334.6 Rnpu = 2952000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.6844  | 0.000                    | 0.7050  | 0.000                      | 0.7165  |
| 0.005                       | -0.1341 | 0.005                    | -0.1166 | 0.005                      | 0.1548  |
| 0.010                       | -0.3490 | 0.010                    | -0.3100 | 0.010                      | -0.0979 |
| 0.020                       | -0.5141 | 0.020                    | -0.4918 | 0.020                      | -0.3576 |
| 0.040                       | -0.5935 | 0.040                    | -0.5460 | 0.040                      | -0.4411 |
| 0.060                       | -0.5953 | 0.060                    | -0.5545 | 0.060                      | -0.4772 |
| 0.080                       | -0.5911 | 0.080                    | -0.5651 | 0.080                      | -0.4741 |
| 0.100                       | -0.5807 | 0.100                    | -0.5567 | 0.100                      | -0.4731 |
| 0.125                       | -0.5138 | 0.125                    | -0.5423 | 0.125                      | -0.4626 |
| 0.150                       | -0.5728 | 0.150                    | -0.5485 | 0.150                      | -0.4678 |
| 0.175                       | -0.5502 | 0.175                    | -0.5595 | 0.175                      | -0.4781 |
| 0.200                       | -0.5816 | 0.200                    | -0.5598 | 0.200                      | -0.4640 |
| 0.250                       | -0.5743 | 0.250                    | -0.5774 | 0.250                      | -0.4857 |
| 0.300                       | -0.5554 | 0.300                    | -0.5547 | 0.300                      | -0.4681 |
| 0.350                       | -0.5148 | 0.350                    | -0.5162 | 0.350                      | -0.4733 |
| 0.400                       | -0.4682 | 0.400                    | -0.5038 | 0.400                      | -0.4454 |
| 0.450                       | -0.4203 | 0.450                    | -0.4572 | 0.450                      | -0.4210 |
| 0.500                       | -0.4095 | 0.500                    | -0.4444 | 0.500                      | -0.3898 |
| 0.550                       | -0.3573 | 0.550                    | -0.4336 | 0.550                      | -0.3966 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3946 | 0.005 | 0.4195 | 0.005 | 0.3657 |
| 0.010 | 0.2060 | 0.010 | 0.1933 | 0.010 | 0.1068 |

Flight 14 Test point 28

Sweep, deg = 35.0 Mach = 0.70 hp, ft = 20400. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 331.8 Rnpu = 2924000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.6960  | 0.000                    | 0.7240  | 0.000                      | 0.7300  |
| 0.005                       | -0.0382 | 0.005                    | -0.0126 | 0.005                      | 0.2437  |
| 0.010                       | -0.2477 | 0.010                    | -0.2080 | 0.010                      | 0.0010  |
| 0.020                       | -0.4201 | 0.020                    | -0.3888 | 0.020                      | -0.2583 |
| 0.040                       | -0.5102 | 0.040                    | -0.4537 | 0.040                      | -0.3590 |
| 0.060                       | -0.5235 | 0.060                    | -0.4810 | 0.060                      | -0.4014 |
| 0.080                       | -0.5290 | 0.080                    | -0.4985 | 0.080                      | -0.4125 |
| 0.100                       | -0.5272 | 0.100                    | -0.5007 | 0.100                      | -0.4175 |
| 0.125                       | -0.4720 | 0.125                    | -0.4916 | 0.125                      | -0.4144 |
| 0.150                       | -0.5305 | 0.150                    | -0.5056 | 0.150                      | -0.4246 |
| 0.175                       | -0.5185 | 0.175                    | -0.5180 | 0.175                      | -0.4403 |
| 0.200                       | -0.5455 | 0.200                    | -0.5216 | 0.200                      | -0.4332 |
| 0.250                       | -0.5473 | 0.250                    | -0.5429 | 0.250                      | -0.4575 |
| 0.300                       | -0.5303 | 0.300                    | -0.5265 | 0.300                      | -0.4443 |
| 0.350                       | -0.4920 | 0.350                    | -0.4942 | 0.350                      | -0.4485 |
| 0.400                       | -0.4528 | 0.400                    | -0.4845 | 0.400                      | -0.4260 |
| 0.450                       | -0.4079 | 0.450                    | -0.4434 | 0.450                      | -0.4078 |
| 0.500                       | -0.3969 | 0.500                    | -0.4314 | 0.500                      | -0.3787 |
| 0.550                       | -0.3494 | 0.550                    | -0.4244 | 0.550                      | -0.3897 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3258 | 0.005 | 0.3463 | 0.005 | 0.2877 |
| 0.010 | 0.1242 | 0.010 | 0.1066 | 0.010 | 0.0136 |



Flight 14 Test point 29

Sweep, deg = 35.0 Mach = 0.75 hp, ft = 19900. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 387.2 Rnpu = 3205000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7108  | 0.000                    | 0.7313  | 0.000                      | 0.7378  |
| 0.005                       | 0.0191  | 0.005                    | 0.0327  | 0.005                      | 0.2645  |
| 0.010                       | -0.1994 | 0.010                    | -0.1682 | 0.010                      | 0.0268  |
| 0.020                       | -0.3882 | 0.020                    | -0.3712 | 0.020                      | -0.2477 |
| 0.040                       | -0.5115 | 0.040                    | -0.4584 | 0.040                      | -0.3655 |
| 0.060                       | -0.5324 | 0.060                    | -0.4954 | 0.060                      | -0.4230 |
| 0.080                       | -0.5438 | 0.080                    | -0.5247 | 0.080                      | -0.4366 |
| 0.100                       | -0.5453 | 0.100                    | -0.5278 | 0.100                      | -0.4433 |
| 0.125                       | -0.4963 | 0.125                    | -0.5196 | 0.125                      | -0.4431 |
| 0.150                       | -0.5669 | 0.150                    | -0.5387 | 0.150                      | -0.4568 |
| 0.175                       | -0.5498 | 0.175                    | -0.5560 | 0.175                      | -0.4771 |
| 0.200                       | -0.5932 | 0.200                    | -0.5654 | 0.200                      | -0.4690 |
| 0.250                       | -0.5911 | 0.250                    | -0.5937 | 0.250                      | -0.4997 |
| 0.300                       | -0.5800 | 0.300                    | -0.5751 | 0.300                      | -0.4905 |
| 0.350                       | -0.5383 | 0.350                    | -0.5407 | 0.350                      | -0.4909 |
| 0.400                       | -0.4910 | 0.400                    | -0.5262 | 0.400                      | -0.4632 |
| 0.450                       | -0.4419 | 0.450                    | -0.4765 | 0.450                      | -0.4349 |
| 0.500                       | -0.4227 | 0.500                    | -0.4589 | 0.500                      | -0.3948 |
| 0.550                       | -0.3729 | 0.550                    | -0.4475 | 0.550                      | -0.3998 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3148 | 0.005 | 0.3393 | 0.005 | 0.2823 |
| 0.010 | 0.1128 | 0.010 | 0.0956 | 0.010 | 0.0052 |

Flight 14 Test point 30

Sweep, deg = 35.3 Mach = 0.76 hp, ft = 19800. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 393.0 R<sub>npu</sub> = 3234000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7139  | 0.000                    | 0.7390  | 0.000                      | 0.7387  |
| 0.005                       | 0.1066  | 0.005                    | 0.1232  | 0.005                      | 0.3406  |
| 0.010                       | -0.1068 | 0.010                    | -0.0723 | 0.010                      | 0.1150  |
| 0.020                       | -0.2980 | 0.020                    | -0.2812 | 0.020                      | -0.1545 |
| 0.040                       | -0.4333 | 0.040                    | -0.3825 | 0.040                      | -0.2853 |
| 0.060                       | -0.4665 | 0.060                    | -0.4296 | 0.060                      | -0.3516 |
| 0.080                       | -0.4859 | 0.080                    | -0.4637 | 0.080                      | -0.3749 |
| 0.100                       | -0.4954 | 0.100                    | -0.4691 | 0.100                      | -0.3863 |
| 0.125                       | -0.4565 | 0.125                    | -0.4715 | 0.125                      | -0.3930 |
| 0.150                       | -0.5219 | 0.150                    | -0.4943 | 0.150                      | -0.4131 |
| 0.175                       | -0.5151 | 0.175                    | -0.5096 | 0.175                      | -0.4329 |
| 0.200                       | -0.5532 | 0.200                    | -0.5236 | 0.200                      | -0.4312 |
| 0.250                       | -0.5592 | 0.250                    | -0.5575 | 0.250                      | -0.4665 |
| 0.300                       | -0.5523 | 0.300                    | -0.5456 | 0.300                      | -0.4610 |
| 0.350                       | -0.5168 | 0.350                    | -0.5175 | 0.350                      | -0.4675 |
| 0.400                       | -0.4757 | 0.400                    | -0.5056 | 0.400                      | -0.4434 |
| 0.450                       | -0.4278 | 0.450                    | -0.4651 | 0.450                      | -0.4202 |
| 0.500                       | -0.4126 | 0.500                    | -0.4462 | 0.500                      | -0.3868 |
| 0.550                       | -0.3661 | 0.550                    | -0.4401 | 0.550                      | -0.3919 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.2447 | 0.005 | 0.2629 | 0.005 | 0.1986  |
| 0.010 | 0.0363 | 0.010 | 0.0074 | 0.010 | -0.0955 |

Flight 15 Test point 1

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 4.9  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 172.2 Rnpu = 1681000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.3538  | 0.000                    | 0.3346  | 0.000                      | 0.3795  |
| 0.005                       | -1.0678 | 0.005                    | -1.0738 | 0.005                      | -0.7139 |
| 0.010                       | -1.2968 | 0.010                    | -1.3574 | 0.010                      | -1.0794 |
| 0.020                       | -1.5181 | 0.020                    | -1.5305 | 0.020                      | -1.4383 |
| 0.040                       | -1.5483 | 0.040                    | -1.5963 | 0.040                      | -1.5519 |
| 0.060                       | -1.5613 | 0.060                    | -1.5780 | 0.060                      | -1.4891 |
| 0.080                       | -1.4457 | 0.080                    | -1.5440 | 0.080                      | -1.3838 |
| 0.100                       | -0.9342 | 0.100                    | -1.0834 | 0.100                      | -0.8235 |
| 0.125                       | -0.8922 | 0.125                    | -0.8509 | 0.125                      | -0.8208 |
| 0.150                       | -0.8618 | 0.150                    | -0.8603 | 0.150                      | -0.8195 |
| 0.175                       | -0.8274 | 0.175                    | -0.8626 | 0.175                      | -0.8087 |
| 0.200                       | -0.8675 | 0.200                    | -0.8670 | 0.200                      | -0.7555 |
| 0.250                       | -0.8131 | 0.250                    | -0.8447 | 0.250                      | -0.7361 |
| 0.300                       | -0.7490 | 0.300                    | -0.7665 | 0.300                      | -0.6647 |
| 0.350                       | -0.6709 | 0.350                    | -0.6734 | 0.350                      | -0.6311 |
| 0.400                       | -0.5846 | 0.400                    | -0.6370 | 0.400                      | -0.5737 |
| 0.450                       | -0.5131 | 0.450                    | -0.5539 | 0.450                      | -0.5204 |
| 0.500                       | -0.4825 | 0.500                    | -0.5136 | 0.500                      | -0.4630 |
| 0.550                       | -0.3945 | 0.550                    | -0.4688 | 0.550                      | -0.4396 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.6772 | 0.005 | 0.7339 | 0.005 | 0.7229 |
| 0.010 | 0.5962 | 0.010 | 0.6281 | 0.010 | 0.6142 |

Fight 15 Test point 2

Sweep, deg = 34.9 Mach = 0.71 hp, ft = 35100. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -0.6 QBAR, lb/ft<sup>2</sup> = 172.9 Rnpu = 1680000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7190  | 0.000                    | 0.7602  | 0.000                      | 0.7643  |
| 0.005                       | 0.1690  | 0.005                    | 0.1845  | 0.005                      | 0.4129  |
| 0.010                       | -0.0414 | 0.010                    | 0.0045  | 0.010                      | 0.1813  |
| 0.020                       | -0.2226 | 0.020                    | -0.2077 | 0.020                      | -0.0705 |
| 0.040                       | -0.3576 | 0.040                    | -0.3208 | 0.040                      | -0.2156 |
| 0.060                       | -0.3996 | 0.060                    | -0.3453 | 0.060                      | -0.2679 |
| 0.080                       | -0.4204 | 0.080                    | -0.3731 | 0.080                      | -0.2969 |
| 0.100                       | -0.4188 | 0.100                    | -0.3743 | 0.100                      | -0.3079 |
| 0.125                       | -0.3958 | 0.125                    | -0.3854 | 0.125                      | -0.3170 |
| 0.150                       | -0.4499 | 0.150                    | -0.4106 | 0.150                      | -0.3445 |
| 0.175                       | -0.4467 | 0.175                    | -0.4340 | 0.175                      | -0.3711 |
| 0.200                       | -0.4845 | 0.200                    | -0.4483 | 0.200                      | -0.3591 |
| 0.250                       | -0.4866 | 0.250                    | -0.4885 | 0.250                      | -0.3965 |
| 0.300                       | -0.4743 | 0.300                    | -0.4701 | 0.300                      | -0.3938 |
| 0.350                       | -0.4518 | 0.350                    | -0.4345 | 0.350                      | -0.4034 |
| 0.400                       | -0.4194 | 0.400                    | -0.4444 | 0.400                      | -0.3925 |
| 0.450                       | -0.3761 | 0.450                    | -0.3998 | 0.450                      | -0.3765 |
| 0.500                       | -0.3677 | 0.500                    | -0.4040 | 0.500                      | -0.3543 |
| 0.550                       | -0.3253 | 0.550                    | -0.3960 | 0.550                      | -0.3633 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.1615  | 0.005 | 0.1975  | 0.005 | 0.1195  |
| 0.010 | -0.0451 | 0.010 | -0.0765 | 0.010 | -0.2049 |

Fight 15 Test point 3

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 35000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.6 QBAR, lb/ft<sup>2</sup> = 171.2 Rnpu = 1672000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7036  | 0.000                    | 0.7443  | 0.000                      | 0.7560  |
| 0.005                       | -0.0378 | 0.005                    | -0.0343 | 0.005                      | 0.2374  |
| 0.010                       | -0.2485 | 0.010                    | -0.2133 | 0.010                      | -0.0191 |
| 0.020                       | -0.4147 | 0.020                    | -0.4022 | 0.020                      | -0.2721 |
| 0.040                       | -0.5126 | 0.040                    | -0.4886 | 0.040                      | -0.3789 |
| 0.060                       | -0.5355 | 0.060                    | -0.4794 | 0.060                      | -0.4204 |
| 0.080                       | -0.5374 | 0.080                    | -0.4945 | 0.080                      | -0.4177 |
| 0.100                       | -0.5271 | 0.100                    | -0.4894 | 0.100                      | -0.4219 |
| 0.125                       | -0.4695 | 0.125                    | -0.4827 | 0.125                      | -0.4142 |
| 0.150                       | -0.5290 | 0.150                    | -0.5041 | 0.150                      | -0.4342 |
| 0.175                       | -0.5220 | 0.175                    | -0.5156 | 0.175                      | -0.4483 |
| 0.200                       | -0.5575 | 0.200                    | -0.5249 | 0.200                      | -0.4270 |
| 0.250                       | -0.5465 | 0.250                    | -0.5507 | 0.250                      | -0.4628 |
| 0.300                       | -0.5247 | 0.300                    | -0.5269 | 0.300                      | -0.4369 |
| 0.350                       | -0.4928 | 0.350                    | -0.4889 | 0.350                      | -0.4434 |
| 0.400                       | -0.4509 | 0.400                    | -0.4943 | 0.400                      | -0.4278 |
| 0.450                       | -0.4058 | 0.450                    | -0.4342 | 0.450                      | -0.4062 |
| 0.500                       | -0.4013 | 0.500                    | -0.4329 | 0.500                      | -0.3806 |
| 0.550                       | -0.3392 | 0.550                    | -0.4187 | 0.550                      | -0.3862 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3275 | 0.005 | 0.3807 | 0.005 | 0.3166 |
| 0.010 | 0.1293 | 0.010 | 0.1290 | 0.010 | 0.0314 |

Fight 15 Test point 4

Sweep, deg = 30.3 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 4.4  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 170.7 Rnpu = 1673000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.5409  | 0.000                    | 0.5376  | 0.000                      | 0.5871  |
| 0.005                       | -0.8688 | 0.005                    | -0.8730 | 0.005                      | -0.4779 |
| 0.010                       | -1.1230 | 0.010                    | -1.1594 | 0.010                      | -0.8572 |
| 0.020                       | -1.3286 | 0.020                    | -1.3233 | 0.020                      | -1.2536 |
| 0.040                       | -1.4443 | 0.040                    | -1.4563 | 0.040                      | -1.3283 |
| 0.060                       | -1.4771 | 0.060                    | -1.4646 | 0.060                      | -1.2567 |
| 0.080                       | -1.3904 | 0.080                    | -1.4108 | 0.080                      | -1.1628 |
| 0.100                       | -1.3101 | 0.100                    | -1.3239 | 0.100                      | -0.9936 |
| 0.125                       | -0.8281 | 0.125                    | -0.7274 | 0.125                      | -0.8452 |
| 0.150                       | -0.8916 | 0.150                    | -0.8611 | 0.150                      | -0.8392 |
| 0.175                       | -0.8478 | 0.175                    | -0.8779 | 0.175                      | -0.8547 |
| 0.200                       | -0.9046 | 0.200                    | -0.9204 | 0.200                      | -0.7902 |
| 0.250                       | -0.8612 | 0.250                    | -0.9153 | 0.250                      | -0.7672 |
| 0.300                       | -0.7946 | 0.300                    | -0.8207 | 0.300                      | -0.6952 |
| 0.350                       | -0.7084 | 0.350                    | -0.7278 | 0.350                      | -0.6719 |
| 0.400                       | -0.6164 | 0.400                    | -0.6918 | 0.400                      | -0.6077 |
| 0.450                       | -0.5452 | 0.450                    | -0.5893 | 0.450                      | -0.5615 |
| 0.500                       | -0.5099 | 0.500                    | -0.5590 | 0.500                      | -0.4926 |
| 0.550                       | -0.4198 | 0.550                    | -0.5123 | 0.550                      | -0.4589 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.7297 | 0.005 | 0.7861 | 0.005 | 0.7656 |
| 0.010 | 0.6069 | 0.010 | 0.6232 | 0.010 | 0.5938 |

Fight 15 Test point 5

Sweep, deg = 30.4 Mach = 0.71 hp, ft = 34900. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 175.2 R<sub>npu</sub> = 1699000.

Upper surface

| BL 200.8<br>Inboard station |                | BL 260<br>Middle station |                | BL 320<br>Outboard station |                |
|-----------------------------|----------------|--------------------------|----------------|----------------------------|----------------|
| x/c                         | C <sub>p</sub> | x/c                      | C <sub>p</sub> | x/c                        | C <sub>p</sub> |
| 0.000                       | 0.8030         | 0.000                    | 0.8413         | 0.000                      | 0.8393         |
| 0.005                       | 0.2255         | 0.005                    | 0.2482         | 0.005                      | 0.4894         |
| 0.010                       | -0.0045        | 0.010                    | 0.0485         | 0.010                      | 0.2474         |
| 0.020                       | -0.2101        | 0.020                    | -0.1852        | 0.020                      | -0.0343        |
| 0.040                       | -0.3717        | 0.040                    | -0.3206        | 0.040                      | -0.1960        |
| 0.060                       | -0.4192        | 0.060                    | -0.3577        | 0.060                      | -0.2748        |
| 0.080                       | -0.4445        | 0.080                    | -0.3837        | 0.080                      | -0.3046        |
| 0.100                       | -0.4489        | 0.100                    | -0.3983        | 0.100                      | -0.3252        |
| 0.125                       | -0.4289        | 0.125                    | -0.4045        | 0.125                      | -0.3378        |
| 0.150                       | -0.4893        | 0.150                    | -0.4386        | 0.150                      | -0.3663        |
| 0.175                       | -0.4880        | 0.175                    | -0.4676        | 0.175                      | -0.3972        |
| 0.200                       | -0.5366        | 0.200                    | -0.4953        | 0.200                      | -0.3855        |
| 0.250                       | -0.5387        | 0.250                    | -0.5275        | 0.250                      | -0.4342        |
| 0.300                       | -0.5227        | 0.300                    | -0.5194        | 0.300                      | -0.4230        |
| 0.350                       | -0.5065        | 0.350                    | -0.4864        | 0.350                      | -0.4425        |
| 0.400                       | -0.4553        | 0.400                    | -0.5059        | 0.400                      | -0.4251        |
| 0.450                       | -0.4080        | 0.450                    | -0.4423        | 0.450                      | -0.4090        |
| 0.500                       | -0.4080        | 0.500                    | -0.4452        | 0.500                      | -0.3865        |
| 0.550                       | -0.3511        | 0.550                    | -0.4320        | 0.550                      | -0.3888        |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.1809  | 0.005 | 0.2084  | 0.005 | 0.1225  |
| 0.010 | -0.0663 | 0.010 | -0.0989 | 0.010 | -0.2517 |

Fight 15 Test point 6

Sweep, deg = 30.4 Mach = 0.71 hp, ft = 33800. Angle of attack, deg = 1.0  
 Angle of sideclip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 184.7 Rnpu = 1776000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7903  | 0.000                    | 0.8343  | 0.000                      | 0.8358  |
| 0.005                       | 0.0135  | 0.005                    | 0.0320  | 0.005                      | 0.3123  |
| 0.010                       | -0.2226 | 0.010                    | -0.1858 | 0.010                      | 0.0366  |
| 0.020                       | -0.4246 | 0.020                    | -0.3980 | 0.020                      | -0.2486 |
| 0.040                       | -0.5506 | 0.040                    | -0.5058 | 0.040                      | -0.3899 |
| 0.060                       | -0.5780 | 0.060                    | -0.5245 | 0.060                      | -0.4373 |
| 0.080                       | -0.5908 | 0.080                    | -0.5349 | 0.080                      | -0.4530 |
| 0.100                       | -0.5887 | 0.100                    | -0.5394 | 0.100                      | -0.4585 |
| 0.125                       | -0.5233 | 0.125                    | -0.5288 | 0.125                      | -0.4594 |
| 0.150                       | -0.5956 | 0.150                    | -0.5572 | 0.150                      | -0.4713 |
| 0.175                       | -0.5794 | 0.175                    | -0.5739 | 0.175                      | -0.5004 |
| 0.200                       | -0.6219 | 0.200                    | -0.5925 | 0.200                      | -0.4777 |
| 0.250                       | -0.6156 | 0.250                    | -0.6166 | 0.250                      | -0.5136 |
| 0.300                       | -0.5942 | 0.300                    | -0.5979 | 0.300                      | -0.4993 |
| 0.350                       | -0.5553 | 0.350                    | -0.5522 | 0.350                      | -0.5013 |
| 0.400                       | -0.5068 | 0.400                    | -0.5508 | 0.400                      | -0.4836 |
| 0.450                       | -0.4498 | 0.450                    | -0.4920 | 0.450                      | -0.4535 |
| 0.500                       | -0.4418 | 0.500                    | -0.4883 | 0.500                      | -0.4181 |
| 0.550                       | -0.3748 | 0.550                    | -0.4650 | 0.550                      | -0.4157 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3611 | 0.005 | 0.3956 | 0.005 | 0.3295 |
| 0.010 | 0.1392 | 0.010 | 0.1224 | 0.010 | 0.0067 |



Fight 15 Test point 7

Sweep, deg = 25.1 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 3.5  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 172.6 Rnpu = 1682000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7443  | 0.000                    | 0.7600  | 0.000                      | 0.7976  |
| 0.005                       | -0.5643 | 0.005                    | -0.5556 | 0.005                      | -0.1561 |
| 0.010                       | -0.8398 | 0.010                    | -0.8269 | 0.010                      | -0.5291 |
| 0.020                       | -1.0726 | 0.020                    | -1.0392 | 0.020                      | -0.9406 |
| 0.040                       | -1.2350 | 0.040                    | -1.2262 | 0.040                      | -1.0050 |
| 0.060                       | -1.2592 | 0.060                    | -1.2072 | 0.060                      | -1.0471 |
| 0.080                       | -1.2104 | 0.080                    | -1.1360 | 0.080                      | -0.9644 |
| 0.100                       | -1.1370 | 0.100                    | -1.0541 | 0.100                      | -0.9171 |
| 0.125                       | -0.8172 | 0.125                    | -0.7922 | 0.125                      | -0.8117 |
| 0.150                       | -0.9323 | 0.150                    | -0.8685 | 0.150                      | -0.8115 |
| 0.175                       | -0.8977 | 0.175                    | -0.9689 | 0.175                      | -0.8529 |
| 0.200                       | -0.9206 | 0.200                    | -1.0010 | 0.200                      | -0.7774 |
| 0.250                       | -0.9428 | 0.250                    | -0.9979 | 0.250                      | -0.7785 |
| 0.300                       | -0.8244 | 0.300                    | -0.8628 | 0.300                      | -0.7154 |
| 0.350                       | -0.7363 | 0.350                    | -0.7601 | 0.350                      | -0.6975 |
| 0.400                       | -0.6503 | 0.400                    | -0.7285 | 0.400                      | -0.6346 |
| 0.450                       | -0.5639 | 0.450                    | -0.6232 | 0.450                      | -0.5833 |
| 0.500                       | -0.5279 | 0.500                    | -0.5884 | 0.500                      | -0.5175 |
| 0.550                       | -0.4352 | 0.550                    | -0.5406 | 0.550                      | -0.4747 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.7310 | 0.005 | 0.7752 | 0.005 | 0.7420 |
| 0.010 | 0.5512 | 0.010 | 0.5615 | 0.010 | 0.4953 |

Fight 15 Test point 8

Sweep, deg = 25.2 Mach = 0.71 hp, ft = 34800. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 175.1 Rnpu = 1699000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8873  | 0.000                    | 0.9370  | 0.000                      | 0.9306  |
| 0.005                       | 0.2671  | 0.005                    | 0.3065  | 0.005                      | 0.5561  |
| 0.010                       | 0.0119  | 0.010                    | 0.0830  | 0.010                      | 0.2927  |
| 0.020                       | -0.2161 | 0.020                    | -0.1761 | 0.020                      | -0.0215 |
| 0.040                       | -0.3953 | 0.040                    | -0.3343 | 0.040                      | -0.1946 |
| 0.060                       | -0.4572 | 0.060                    | -0.3786 | 0.060                      | -0.2866 |
| 0.080                       | -0.4925 | 0.080                    | -0.4149 | 0.080                      | -0.3189 |
| 0.100                       | -0.5081 | 0.100                    | -0.4399 | 0.100                      | -0.3450 |
| 0.125                       | -0.4723 | 0.125                    | -0.4536 | 0.125                      | -0.3648 |
| 0.150                       | -0.5476 | 0.150                    | -0.4843 | 0.150                      | -0.3995 |
| 0.175                       | -0.5426 | 0.175                    | -0.5166 | 0.175                      | -0.4215 |
| 0.200                       | -0.5972 | 0.200                    | -0.5398 | 0.200                      | -0.4240 |
| 0.250                       | -0.6004 | 0.250                    | -0.5949 | 0.250                      | -0.4743 |
| 0.300                       | -0.5903 | 0.300                    | -0.5798 | 0.300                      | -0.4741 |
| 0.350                       | -0.5573 | 0.350                    | -0.5483 | 0.350                      | -0.4924 |
| 0.400                       | -0.5093 | 0.400                    | -0.5642 | 0.400                      | -0.4761 |
| 0.450                       | -0.4571 | 0.450                    | -0.4985 | 0.450                      | -0.4592 |
| 0.500                       | -0.4440 | 0.500                    | -0.4898 | 0.500                      | -0.4311 |
| 0.550                       | -0.3813 | 0.550                    | -0.4713 | 0.550                      | -0.4250 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2165  | 0.005 | 0.2395  | 0.005 | 0.1463  |
| 0.010 | -0.0420 | 0.010 | -0.1000 | 0.010 | -0.2655 |

Fight 15 Test point 9

Sweep, deg = 25.3 Mach = 0.71 hp, ft = 34200. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 180.4 Rnpu = 1742000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8729  | 0.000                    | 0.9154  | 0.000                      | 0.9246  |
| 0.005                       | -0.0634 | 0.005                    | -0.0318 | 0.005                      | 0.2920  |
| 0.010                       | -0.3273 | 0.010                    | -0.2718 | 0.010                      | -0.0151 |
| 0.020                       | -0.5568 | 0.020                    | -0.5163 | 0.020                      | -0.3504 |
| 0.040                       | -0.6990 | 0.040                    | -0.6449 | 0.040                      | -0.4891 |
| 0.060                       | -0.7102 | 0.060                    | -0.6504 | 0.060                      | -0.5459 |
| 0.080                       | -0.7175 | 0.080                    | -0.6545 | 0.080                      | -0.5527 |
| 0.100                       | -0.7320 | 0.100                    | -0.6553 | 0.100                      | -0.5597 |
| 0.125                       | -0.6290 | 0.125                    | -0.6442 | 0.125                      | -0.5490 |
| 0.150                       | -0.7197 | 0.150                    | -0.6735 | 0.150                      | -0.5676 |
| 0.175                       | -0.6950 | 0.175                    | -0.6986 | 0.175                      | -0.5825 |
| 0.200                       | -0.7501 | 0.200                    | -0.7149 | 0.200                      | -0.5737 |
| 0.250                       | -0.7328 | 0.250                    | -0.7397 | 0.250                      | -0.6042 |
| 0.300                       | -0.6948 | 0.300                    | -0.7035 | 0.300                      | -0.5863 |
| 0.350                       | -0.6407 | 0.350                    | -0.6458 | 0.350                      | -0.5883 |
| 0.400                       | -0.5722 | 0.400                    | -0.6386 | 0.400                      | -0.5560 |
| 0.450                       | -0.5090 | 0.450                    | -0.5598 | 0.450                      | -0.5179 |
| 0.500                       | -0.4885 | 0.500                    | -0.5436 | 0.500                      | -0.4704 |
| 0.550                       | -0.4143 | 0.550                    | -0.5142 | 0.550                      | -0.4514 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4887 | 0.005 | 0.5163 | 0.005 | 0.4464 |
| 0.010 | 0.2600 | 0.010 | 0.2358 | 0.010 | 0.1051 |

Fight 15 Test point 10

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 3.4  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 172.6 Rnpu = 1684000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8268  | 0.000                    | 0.8535  | 0.000                      | 0.8944  |
| 0.005                       | -0.4869 | 0.005                    | -0.4546 | 0.005                      | -0.0508 |
| 0.010                       | -0.7828 | 0.010                    | -0.7510 | 0.010                      | -0.4349 |
| 0.020                       | -1.0244 | 0.020                    | -0.9756 | 0.020                      | -0.8602 |
| 0.040                       | -1.2151 | 0.040                    | -1.1850 | 0.040                      | -0.9560 |
| 0.060                       | -1.2640 | 0.060                    | -1.1872 | 0.060                      | -1.0207 |
| 0.080                       | -1.2386 | 0.080                    | -1.1637 | 0.080                      | -0.9821 |
| 0.100                       | -1.2395 | 0.100                    | -1.1355 | 0.100                      | -0.9503 |
| 0.125                       | -1.0183 | 0.125                    | -1.0796 | 0.125                      | -0.8483 |
| 0.150                       | -1.1216 | 0.150                    | -1.0188 | 0.150                      | -0.8187 |
| 0.175                       | -1.0991 | 0.175                    | -0.9370 | 0.175                      | -0.8789 |
| 0.200                       | -1.1242 | 0.200                    | -0.9413 | 0.200                      | -0.8627 |
| 0.250                       | -0.8784 | 0.250                    | -1.0338 | 0.250                      | -0.8104 |
| 0.300                       | -0.8570 | 0.300                    | -0.9996 | 0.300                      | -0.7713 |
| 0.350                       | -0.7775 | 0.350                    | -0.7767 | 0.350                      | -0.7513 |
| 0.400                       | -0.6779 | 0.400                    | -0.7591 | 0.400                      | -0.6799 |
| 0.450                       | -0.5956 | 0.450                    | -0.6540 | 0.450                      | -0.6275 |
| 0.500                       | -0.5510 | 0.500                    | -0.6137 | 0.500                      | -0.5508 |
| 0.550                       | -0.4515 | 0.550                    | -0.5713 | 0.550                      | -0.4995 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.7638 | 0.005 | 0.8038 | 0.005 | 0.7605 |
| 0.010 | 0.5695 | 0.010 | 0.5654 | 0.010 | 0.4770 |

Fight 15 Test point 11

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 34600. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 175.5 Rnpu = 1707000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9582  | 0.000                    | 1.0058  | 0.000                      | 1.0032  |
| 0.005                       | 0.1362  | 0.005                    | 0.1882  | 0.005                      | 0.4877  |
| 0.010                       | -0.1354 | 0.010                    | -0.0609 | 0.010                      | 0.1793  |
| 0.020                       | -0.3882 | 0.020                    | -0.3315 | 0.020                      | -0.1606 |
| 0.040                       | -0.5615 | 0.040                    | -0.4997 | 0.040                      | -0.3402 |
| 0.060                       | -0.6136 | 0.060                    | -0.5277 | 0.060                      | -0.4183 |
| 0.080                       | -0.6336 | 0.080                    | -0.5531 | 0.080                      | -0.4495 |
| 0.100                       | -0.6526 | 0.100                    | -0.5752 | 0.100                      | -0.4653 |
| 0.125                       | -0.5936 | 0.125                    | -0.5757 | 0.125                      | -0.4750 |
| 0.150                       | -0.6836 | 0.150                    | -0.6158 | 0.150                      | -0.5086 |
| 0.175                       | -0.6663 | 0.175                    | -0.6565 | 0.175                      | -0.5262 |
| 0.200                       | -0.7212 | 0.200                    | -0.6811 | 0.200                      | -0.5348 |
| 0.250                       | -0.7209 | 0.250                    | -0.7175 | 0.250                      | -0.5765 |
| 0.300                       | -0.6939 | 0.300                    | -0.6941 | 0.300                      | -0.5744 |
| 0.350                       | -0.6431 | 0.350                    | -0.6413 | 0.350                      | -0.5831 |
| 0.400                       | -0.5775 | 0.400                    | -0.6438 | 0.400                      | -0.5526 |
| 0.450                       | -0.5117 | 0.450                    | -0.5661 | 0.450                      | -0.5261 |
| 0.500                       | -0.4912 | 0.500                    | -0.5514 | 0.500                      | -0.4714 |
| 0.550                       | -0.4159 | 0.550                    | -0.5232 | 0.550                      | -0.4530 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4039 | 0.005 | 0.4247 | 0.005 | 0.3344  |
| 0.010 | 0.1409 | 0.010 | 0.0852 | 0.010 | -0.0654 |

Fight 15 Test point 12

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 34000. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 177.3 Rnpu = 1730000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9374  | 0.000                    | 0.9764  | 0.000                      | 0.9916  |
| 0.005                       | -0.0551 | 0.005                    | -0.0095 | 0.005                      | 0.3388  |
| 0.010                       | -0.3452 | 0.010                    | -0.2753 | 0.010                      | 0.0036  |
| 0.020                       | -0.5879 | 0.020                    | -0.5314 | 0.020                      | -0.3463 |
| 0.040                       | -0.7519 | 0.040                    | -0.6749 | 0.040                      | -0.5030 |
| 0.060                       | -0.7739 | 0.060                    | -0.6845 | 0.060                      | -0.5647 |
| 0.080                       | -0.7821 | 0.080                    | -0.6974 | 0.080                      | -0.5715 |
| 0.100                       | -0.7790 | 0.100                    | -0.6988 | 0.100                      | -0.5803 |
| 0.125                       | -0.6871 | 0.125                    | -0.6869 | 0.125                      | -0.5722 |
| 0.150                       | -0.7764 | 0.150                    | -0.7136 | 0.150                      | -0.6006 |
| 0.175                       | -0.7413 | 0.175                    | -0.7441 | 0.175                      | -0.6112 |
| 0.200                       | -0.8040 | 0.200                    | -0.7646 | 0.200                      | -0.6183 |
| 0.250                       | -0.7864 | 0.250                    | -0.7932 | 0.250                      | -0.6438 |
| 0.300                       | -0.7498 | 0.300                    | -0.7582 | 0.300                      | -0.6203 |
| 0.350                       | -0.6777 | 0.350                    | -0.6942 | 0.350                      | -0.6242 |
| 0.400                       | -0.6067 | 0.400                    | -0.6906 | 0.400                      | -0.5830 |
| 0.450                       | -0.5341 | 0.450                    | -0.5888 | 0.450                      | -0.5483 |
| 0.500                       | -0.5084 | 0.500                    | -0.5766 | 0.500                      | -0.5003 |
| 0.550                       | -0.4280 | 0.550                    | -0.5405 | 0.550                      | -0.4656 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5441 | 0.005 | 0.5668 | 0.005 | 0.4830 |
| 0.010 | 0.3073 | 0.010 | 0.2599 | 0.010 | 0.1252 |

Fight 15 Test point 13

Sweep, deg = 20.0 Mach = 0.76 hp, ft = 34900. Angle of attack, deg = 2.5  
 Angle of sideslip, deg = 0.4 QBAR, lb/ft<sup>2</sup> = 199.4 Rrho = 1826000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9297  | 0.000                    | 0.9615  | 0.000                      | 0.9717  |
| 0.005                       | -0.1302 | 0.005                    | -0.0931 | 0.005                      | 0.2247  |
| 0.010                       | -0.4085 | 0.010                    | -0.3631 | 0.010                      | -0.1256 |
| 0.020                       | -0.6639 | 0.020                    | -0.6240 | 0.020                      | -0.5077 |
| 0.040                       | -0.8244 | 0.040                    | -0.8213 | 0.040                      | -0.6592 |
| 0.060                       | -0.9504 | 0.060                    | -0.8520 | 0.060                      | -0.7915 |
| 0.080                       | -0.9162 | 0.080                    | -0.8761 | 0.080                      | -0.7560 |
| 0.100                       | -0.9613 | 0.100                    | -0.9008 | 0.100                      | -0.8215 |
| 0.125                       | -0.8276 | 0.125                    | -0.8928 | 0.125                      | -0.8029 |
| 0.150                       | -0.9565 | 0.150                    | -0.9042 | 0.150                      | -0.7497 |
| 0.175                       | -1.0002 | 0.175                    | -0.9277 | 0.175                      | -0.7910 |
| 0.200                       | -1.0072 | 0.200                    | -0.9402 | 0.200                      | -0.8104 |
| 0.250                       | -1.1159 | 0.250                    | -1.0226 | 0.250                      | -0.9008 |
| 0.300                       | -1.1790 | 0.300                    | -1.0602 | 0.300                      | -0.9360 |
| 0.350                       | -1.1505 | 0.350                    | -1.1140 | 0.350                      | -1.0025 |
| 0.400                       | -1.1153 | 0.400                    | -1.1895 | 0.400                      | -0.9994 |
| 0.450                       | -0.5396 | 0.450                    | -1.1706 | 0.450                      | -1.0149 |
| 0.500                       | -0.4437 | 0.500                    | -0.6333 | 0.500                      | -0.4004 |
| 0.550                       | -0.4027 | 0.550                    | -0.4483 | 0.550                      | -0.4284 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.6475 | 0.005 | 0.6768 | 0.005 | 0.6253 |
| 0.010 | 0.4282 | 0.010 | 0.4029 | 0.010 | 0.3046 |

Fight 15 Test point 14

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 34900. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.9 QBAR, lb/ft<sup>2</sup> = 197.7 Rnpu = 1817000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9796  | 0.000                    | 1.0234  | 0.000                      | 1.0189  |
| 0.005                       | 0.3702  | 0.005                    | 0.4239  | 0.005                      | 0.6553  |
| 0.010                       | 0.1088  | 0.010                    | 0.1725  | 0.010                      | 0.3871  |
| 0.020                       | -0.1534 | 0.020                    | -0.1056 | 0.020                      | 0.0556  |
| 0.040                       | -0.3700 | 0.040                    | -0.3007 | 0.040                      | -0.1566 |
| 0.060                       | -0.4520 | 0.060                    | -0.3657 | 0.060                      | -0.2725 |
| 0.080                       | -0.4964 | 0.080                    | -0.4180 | 0.080                      | -0.3217 |
| 0.100                       | -0.5408 | 0.100                    | -0.4504 | 0.100                      | -0.3598 |
| 0.125                       | -0.5224 | 0.125                    | -0.4830 | 0.125                      | -0.3846 |
| 0.150                       | -0.6093 | 0.150                    | -0.5316 | 0.150                      | -0.4389 |
| 0.175                       | -0.6069 | 0.175                    | -0.5917 | 0.175                      | -0.4735 |
| 0.200                       | -0.6909 | 0.200                    | -0.6476 | 0.200                      | -0.4980 |
| 0.250                       | -0.7464 | 0.250                    | -0.7287 | 0.250                      | -0.5645 |
| 0.300                       | -0.6997 | 0.300                    | -0.7544 | 0.300                      | -0.5901 |
| 0.350                       | -0.7096 | 0.350                    | -0.7136 | 0.350                      | -0.6142 |
| 0.400                       | -0.6025 | 0.400                    | -0.6815 | 0.400                      | -0.5775 |
| 0.450                       | -0.5173 | 0.450                    | -0.5813 | 0.450                      | -0.5602 |
| 0.500                       | -0.4977 | 0.500                    | -0.5675 | 0.500                      | -0.4904 |
| 0.550                       | -0.4210 | 0.550                    | -0.5311 | 0.550                      | -0.4390 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2526  | 0.005 | 0.2542  | 0.005 | 0.1738  |
| 0.010 | -0.0346 | 0.010 | -0.1128 | 0.010 | -0.2717 |



Flight 15 Test point 15

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 34900. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.8 QBAR, lb/ft<sup>2</sup> = 195.9 Rrho = 1804000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9782  | 0.000                    | 1.0198  | 0.000                      | 1.0202  |
| 0.005                       | 0.1658  | 0.005                    | 0.2182  | 0.005                      | 0.4885  |
| 0.010                       | -0.1090 | 0.010                    | -0.0481 | 0.010                      | 0.1899  |
| 0.020                       | -0.3681 | 0.020                    | -0.3210 | 0.020                      | -0.1674 |
| 0.040                       | -0.5730 | 0.040                    | -0.5073 | 0.040                      | -0.3584 |
| 0.060                       | -0.6390 | 0.060                    | -0.5669 | 0.060                      | -0.4608 |
| 0.080                       | -0.6442 | 0.080                    | -0.5962 | 0.080                      | -0.4967 |
| 0.100                       | -0.6651 | 0.100                    | -0.6141 | 0.100                      | -0.5162 |
| 0.125                       | -0.6750 | 0.125                    | -0.6169 | 0.125                      | -0.5308 |
| 0.150                       | -0.8699 | 0.150                    | -0.6607 | 0.150                      | -0.5742 |
| 0.175                       | -0.7206 | 0.175                    | -0.7384 | 0.175                      | -0.6136 |
| 0.200                       | -0.8219 | 0.200                    | -0.7804 | 0.200                      | -0.6207 |
| 0.250                       | -0.8852 | 0.250                    | -0.8629 | 0.250                      | -0.6894 |
| 0.300                       | -0.9197 | 0.300                    | -0.8871 | 0.300                      | -0.7108 |
| 0.350                       | -0.7623 | 0.350                    | -0.8975 | 0.350                      | -0.7519 |
| 0.400                       | -0.6205 | 0.400                    | -0.7507 | 0.400                      | -0.6341 |
| 0.450                       | -0.5444 | 0.450                    | -0.5739 | 0.450                      | -0.5777 |
| 0.500                       | -0.5201 | 0.500                    | -0.5807 | 0.500                      | -0.5192 |
| 0.550                       | -0.4343 | 0.550                    | -0.5406 | 0.550                      | -0.4718 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4398 | 0.005 | 0.4526 | 0.005 | 0.3810  |
| 0.010 | 0.1735 | 0.010 | 0.1244 | 0.010 | -0.0159 |

Flight 15 Test point 16

Sweep, deg = 25.3 Mach = 0.75 hp, ft = 34900. Angle of attack, deg = 3.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 196.0 Rnpu = 1806000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8115  | 0.000                    | 0.8358  | 0.000                      | 0.8486  |
| 0.005                       | -0.3080 | 0.005                    | -0.2957 | 0.005                      | 0.0329  |
| 0.010                       | -0.5777 | 0.010                    | -0.5502 | 0.010                      | -0.3143 |
| 0.020                       | -0.8110 | 0.020                    | -0.7835 | 0.020                      | -0.7044 |
| 0.040                       | -0.9794 | 0.040                    | -0.9818 | 0.040                      | -0.8128 |
| 0.060                       | -1.0511 | 0.060                    | -0.9972 | 0.060                      | -0.8923 |
| 0.080                       | -1.0219 | 0.080                    | -0.9913 | 0.080                      | -0.9476 |
| 0.100                       | -1.0134 | 0.100                    | -0.9897 | 0.100                      | -0.8984 |
| 0.125                       | -0.8209 | 0.125                    | -0.9714 | 0.125                      | -0.9043 |
| 0.150                       | -1.0190 | 0.150                    | -0.9616 | 0.150                      | -0.8140 |
| 0.175                       | -0.9591 | 0.175                    | -0.9752 | 0.175                      | -0.8277 |
| 0.200                       | -1.0089 | 0.200                    | -0.9683 | 0.200                      | -0.8047 |
| 0.250                       | -1.0752 | 0.250                    | -1.0225 | 0.250                      | -0.8958 |
| 0.300                       | -1.0483 | 0.300                    | -1.0459 | 0.300                      | -0.9304 |
| 0.350                       | -0.7786 | 0.350                    | -1.0679 | 0.350                      | -0.9019 |
| 0.400                       | -0.6268 | 0.400                    | -0.6526 | 0.400                      | -0.5691 |
| 0.450                       | -0.5459 | 0.450                    | -0.5242 | 0.450                      | -0.5649 |
| 0.500                       | -0.5088 | 0.500                    | -0.5472 | 0.500                      | -0.5040 |
| 0.550                       | -0.4355 | 0.550                    | -0.5271 | 0.550                      | -0.4640 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.6577 | 0.005 | 0.6944 | 0.005 | 0.6568 |
| 0.010 | 0.4650 | 0.010 | 0.4576 | 0.010 | 0.3864 |

Fight 15 Test point 17

Sweep, deg = 25.3 Mach = 0.75 hp, ft = 34700. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 197.7 Rnpu = 1818000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8944  | 0.000                    | 0.9277  | 0.000                      | 0.9267  |
| 0.005                       | 0.2236  | 0.005                    | 0.2532  | 0.005                      | 0.5041  |
| 0.010                       | -0.0269 | 0.010                    | 0.0219  | 0.010                      | 0.2393  |
| 0.020                       | -0.2625 | 0.020                    | -0.2288 | 0.020                      | -0.0841 |
| 0.040                       | -0.4480 | 0.040                    | -0.3938 | 0.040                      | -0.2638 |
| 0.060                       | -0.5043 | 0.060                    | -0.4424 | 0.060                      | -0.3576 |
| 0.080                       | -0.5358 | 0.080                    | -0.4822 | 0.080                      | -0.3904 |
| 0.100                       | -0.5799 | 0.100                    | -0.5030 | 0.100                      | -0.4083 |
| 0.125                       | -0.5217 | 0.125                    | -0.5136 | 0.125                      | -0.4250 |
| 0.150                       | -0.6057 | 0.150                    | -0.5583 | 0.150                      | -0.4644 |
| 0.175                       | -0.6014 | 0.175                    | -0.5989 | 0.175                      | -0.4994 |
| 0.200                       | -0.6718 | 0.200                    | -0.6396 | 0.200                      | -0.5018 |
| 0.250                       | -0.6760 | 0.250                    | -0.6852 | 0.250                      | -0.5521 |
| 0.300                       | -0.6645 | 0.300                    | -0.6893 | 0.300                      | -0.5508 |
| 0.350                       | -0.6257 | 0.350                    | -0.6260 | 0.350                      | -0.5673 |
| 0.400                       | -0.5576 | 0.400                    | -0.6264 | 0.400                      | -0.5345 |
| 0.450                       | -0.4956 | 0.450                    | -0.5476 | 0.450                      | -0.5091 |
| 0.500                       | -0.4723 | 0.500                    | -0.5296 | 0.500                      | -0.4559 |
| 0.550                       | -0.4015 | 0.550                    | -0.5003 | 0.550                      | -0.4407 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2981 | 0.005 | 0.3134  | 0.005 | 0.2426  |
| 0.010 | 0.0385 | 0.010 | -0.0068 | 0.010 | -0.1481 |

Fight 15 Test point 18

Sweep, deg = 25.3 Mach = 0.76 hp, ft = 34100. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 208.1 Rnpu = 1886000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8934  | 0.000                    | 0.9241  | 0.000                      | 0.9274  |
| 0.005                       | 0.1081  | 0.005                    | 0.1302  | 0.005                      | 0.3984  |
| 0.010                       | -0.1506 | 0.010                    | -0.1085 | 0.010                      | 0.1105  |
| 0.020                       | -0.3904 | 0.020                    | -0.3608 | 0.020                      | -0.2180 |
| 0.040                       | -0.5642 | 0.040                    | -0.5210 | 0.040                      | -0.3900 |
| 0.060                       | -0.6216 | 0.060                    | -0.5643 | 0.060                      | -0.4740 |
| 0.080                       | -0.6153 | 0.080                    | -0.5902 | 0.080                      | -0.4994 |
| 0.100                       | -0.6485 | 0.100                    | -0.6065 | 0.100                      | -0.5145 |
| 0.125                       | -0.6710 | 0.125                    | -0.6032 | 0.125                      | -0.5260 |
| 0.150                       | -0.6447 | 0.150                    | -0.6432 | 0.150                      | -0.5610 |
| 0.175                       | -0.6385 | 0.175                    | -0.7015 | 0.175                      | -0.5912 |
| 0.200                       | -0.7229 | 0.200                    | -0.7107 | 0.200                      | -0.5955 |
| 0.250                       | -0.7997 | 0.250                    | -0.8223 | 0.250                      | -0.6341 |
| 0.300                       | -0.7789 | 0.300                    | -0.8168 | 0.300                      | -0.6301 |
| 0.350                       | -0.7338 | 0.350                    | -0.8674 | 0.350                      | -0.6309 |
| 0.400                       | -0.5979 | 0.400                    | -0.8635 | 0.400                      | -0.5757 |
| 0.450                       | -0.5249 | 0.450                    | -0.5779 | 0.450                      | -0.5360 |
| 0.500                       | -0.4903 | 0.500                    | -0.5517 | 0.500                      | -0.4754 |
| 0.550                       | -0.4170 | 0.550                    | -0.5193 | 0.550                      | -0.4499 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4061 | 0.005 | 0.4272 | 0.005 | 0.3653 |
| 0.010 | 0.1663 | 0.010 | 0.1328 | 0.010 | 0.0101 |

Fight 15 Test point 19

Sweep, deg = 30.1 Mach = 0.75 hp, ft = 34900. Angle of attack, deg = 3.2  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 198.3 R<sub>pu</sub> = 1820000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.6972  | 0.000                    | 0.7051  | 0.000                      | 0.7282  |
| 0.005                       | -0.4342 | 0.005                    | -0.4419 | 0.005                      | -0.1243 |
| 0.010                       | -0.6857 | 0.010                    | -0.6888 | 0.010                      | -0.4579 |
| 0.020                       | -0.8996 | 0.020                    | -0.8870 | 0.020                      | -0.8473 |
| 0.040                       | -1.0479 | 0.040                    | -1.0617 | 0.040                      | -0.9108 |
| 0.060                       | -1.0734 | 0.060                    | -1.0736 | 0.060                      | -0.9557 |
| 0.080                       | -1.0617 | 0.080                    | -1.0518 | 0.080                      | -1.0161 |
| 0.100                       | -1.0148 | 0.100                    | -1.0351 | 0.100                      | -0.9743 |
| 0.125                       | -0.7957 | 0.125                    | -0.9939 | 0.125                      | -0.9182 |
| 0.150                       | -0.9948 | 0.150                    | -0.9576 | 0.150                      | -0.7651 |
| 0.175                       | -0.8681 | 0.175                    | -0.9023 | 0.175                      | -0.7741 |
| 0.200                       | -0.9514 | 0.200                    | -0.8852 | 0.200                      | -0.7548 |
| 0.250                       | -0.7625 | 0.250                    | -0.9562 | 0.250                      | -0.7816 |
| 0.300                       | -0.8731 | 0.300                    | -0.8777 | 0.300                      | -0.6994 |
| 0.350                       | -0.7357 | 0.350                    | -0.6878 | 0.350                      | -0.6575 |
| 0.400                       | -0.6215 | 0.400                    | -0.6521 | 0.400                      | -0.5974 |
| 0.450                       | -0.5339 | 0.450                    | -0.5797 | 0.450                      | -0.5474 |
| 0.500                       | -0.4973 | 0.500                    | -0.5470 | 0.500                      | -0.4791 |
| 0.550                       | -0.4160 | 0.550                    | -0.5061 | 0.550                      | -0.4411 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.6374 | 0.005 | 0.6796 | 0.005 | 0.6605 |
| 0.010 | 0.4725 | 0.010 | 0.4821 | 0.010 | 0.4315 |

Fight 15 Test point 20

Sweep, deg = 30.0 Mach = 0.76 hp, ft = 35500. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 194.3 Rrho = 1781000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8141  | 0.000                    | 0.8512  | 0.000                      | 0.8485  |
| 0.005                       | 0.2381  | 0.005                    | 0.2576  | 0.005                      | 0.4938  |
| 0.010                       | 0.0090  | 0.010                    | 0.0544  | 0.010                      | 0.2475  |
| 0.020                       | -0.2080 | 0.020                    | -0.1807 | 0.020                      | -0.0445 |
| 0.040                       | -0.3656 | 0.040                    | -0.3304 | 0.040                      | -0.2131 |
| 0.060                       | -0.4236 | 0.060                    | -0.3679 | 0.060                      | -0.2890 |
| 0.080                       | -0.4585 | 0.080                    | -0.4027 | 0.080                      | -0.3236 |
| 0.100                       | -0.4791 | 0.100                    | -0.4200 | 0.100                      | -0.3472 |
| 0.125                       | -0.4501 | 0.125                    | -0.4301 | 0.125                      | -0.3640 |
| 0.150                       | -0.5160 | 0.150                    | -0.4737 | 0.150                      | -0.3921 |
| 0.175                       | -0.5235 | 0.175                    | -0.4999 | 0.175                      | -0.4309 |
| 0.200                       | -0.5683 | 0.200                    | -0.5304 | 0.200                      | -0.4271 |
| 0.250                       | -0.5768 | 0.250                    | -0.5754 | 0.250                      | -0.4704 |
| 0.300                       | -0.5678 | 0.300                    | -0.5709 | 0.300                      | -0.4650 |
| 0.350                       | -0.5404 | 0.350                    | -0.5294 | 0.350                      | -0.4798 |
| 0.400                       | -0.4979 | 0.400                    | -0.5355 | 0.400                      | -0.4620 |
| 0.450                       | -0.4398 | 0.450                    | -0.4806 | 0.450                      | -0.4423 |
| 0.500                       | -0.4247 | 0.500                    | -0.4753 | 0.500                      | -0.4037 |
| 0.550                       | -0.3849 | 0.550                    | -0.4469 | 0.550                      | -0.3995 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2098  | 0.005 | 0.2354  | 0.005 | 0.1623  |
| 0.010 | -0.0302 | 0.010 | -0.0782 | 0.010 | -0.2038 |

Flight 15 Test point 21

Sweep, deg = 30.0 Mach = 0.75 hp, ft = 35000. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 198.2 Rnpu = 1813000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8045  | 0.000                    | 0.8420  | 0.000                      | 0.8368  |
| 0.005                       | 0.0413  | 0.005                    | 0.0481  | 0.005                      | 0.3211  |
| 0.010                       | -0.1982 | 0.010                    | -0.1653 | 0.010                      | 0.0449  |
| 0.020                       | -0.4059 | 0.020                    | -0.3935 | 0.020                      | -0.2545 |
| 0.040                       | -0.5510 | 0.040                    | -0.5202 | 0.040                      | -0.4018 |
| 0.060                       | -0.5777 | 0.060                    | -0.5434 | 0.060                      | -0.4612 |
| 0.080                       | -0.5903 | 0.080                    | -0.5682 | 0.080                      | -0.4818 |
| 0.100                       | -0.6414 | 0.100                    | -0.5734 | 0.100                      | -0.4870 |
| 0.125                       | -0.5341 | 0.125                    | -0.5642 | 0.125                      | -0.4870 |
| 0.150                       | -0.6175 | 0.150                    | -0.5911 | 0.150                      | -0.5126 |
| 0.175                       | -0.6052 | 0.175                    | -0.6134 | 0.175                      | -0.5462 |
| 0.200                       | -0.6734 | 0.200                    | -0.6533 | 0.200                      | -0.5223 |
| 0.250                       | -0.6565 | 0.250                    | -0.6776 | 0.250                      | -0.5650 |
| 0.300                       | -0.6451 | 0.300                    | -0.6581 | 0.300                      | -0.5464 |
| 0.350                       | -0.6015 | 0.350                    | -0.5999 | 0.350                      | -0.5483 |
| 0.400                       | -0.5416 | 0.400                    | -0.5915 | 0.400                      | -0.5198 |
| 0.450                       | -0.4764 | 0.450                    | -0.5224 | 0.450                      | -0.4800 |
| 0.500                       | -0.4532 | 0.500                    | -0.4996 | 0.500                      | -0.4338 |
| 0.550                       | -0.3898 | 0.550                    | -0.4762 | 0.550                      | -0.4197 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3740 | 0.005 | 0.4087 | 0.005 | 0.3481 |
| 0.010 | 0.1598 | 0.010 | 0.1395 | 0.010 | 0.0308 |

Fight 15 Test point 22

Sweep, deg = 35.4 Mach = 0.75 hp, ft = 34900. Angle of attack, deg = 3.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 198.8 Rnpu = 1818000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.5430  | 0.000                    | 0.5292  | 0.000                      | 0.5587  |
| 0.005                       | -0.6115 | 0.005                    | -0.6477 | 0.005                      | -0.3290 |
| 0.010                       | -0.8280 | 0.010                    | -0.8810 | 0.010                      | -0.6453 |
| 0.020                       | -1.0200 | 0.020                    | -1.0349 | 0.020                      | -1.0182 |
| 0.040                       | -1.1227 | 0.040                    | -1.1536 | 0.040                      | -1.0052 |
| 0.060                       | -1.1399 | 0.060                    | -1.1587 | 0.060                      | -0.9806 |
| 0.080                       | -1.0766 | 0.080                    | -1.1154 | 0.080                      | -1.0719 |
| 0.100                       | -0.8777 | 0.100                    | -1.0231 | 0.100                      | -0.8130 |
| 0.125                       | -0.7719 | 0.125                    | -0.7811 | 0.125                      | -0.7443 |
| 0.150                       | -0.8188 | 0.150                    | -0.8265 | 0.150                      | -0.7799 |
| 0.175                       | -0.8019 | 0.175                    | -0.8657 | 0.175                      | -0.7831 |
| 0.200                       | -0.8059 | 0.200                    | -0.8296 | 0.200                      | -0.7213 |
| 0.250                       | -0.7755 | 0.250                    | -0.7849 | 0.250                      | -0.6977 |
| 0.300                       | -0.7310 | 0.300                    | -0.7768 | 0.300                      | -0.6281 |
| 0.350                       | -0.6410 | 0.350                    | -0.6340 | 0.350                      | -0.5992 |
| 0.400                       | -0.5682 | 0.400                    | -0.6075 | 0.400                      | -0.5390 |
| 0.450                       | -0.4921 | 0.450                    | -0.5335 | 0.450                      | -0.4873 |
| 0.500                       | -0.4614 | 0.500                    | -0.4994 | 0.500                      | -0.4300 |
| 0.550                       | -0.3813 | 0.550                    | -0.4566 | 0.550                      | -0.4149 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.6085 | 0.005 | 0.6587 | 0.005 | 0.6488 |
| 0.010 | 0.4801 | 0.010 | 0.4994 | 0.010 | 0.4749 |



Fight 15 Test point 23

Sweep, deg = 35.6 Mach = 0.75 hp, ft = 34700. Angle of attack, deg = -0.2  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 200.7 Rnpu = 1834000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7027  | 0.000                    | 0.7352  | 0.000                      | 0.7344  |
| 0.005                       | 0.2504  | 0.005                    | 0.2654  | 0.005                      | 0.4725  |
| 0.010                       | 0.0542  | 0.010                    | 0.0931  | 0.010                      | 0.2614  |
| 0.020                       | -0.1361 | 0.020                    | -0.1124 | 0.020                      | 0.0127  |
| 0.040                       | -0.2820 | 0.040                    | -0.2405 | 0.040                      | -0.1325 |
| 0.060                       | -0.3190 | 0.060                    | -0.2906 | 0.060                      | -0.2113 |
| 0.080                       | -0.3639 | 0.080                    | -0.3129 | 0.080                      | -0.2463 |
| 0.100                       | -0.3738 | 0.100                    | -0.3301 | 0.100                      | -0.2662 |
| 0.125                       | -0.3631 | 0.125                    | -0.3375 | 0.125                      | -0.2793 |
| 0.150                       | -0.4163 | 0.150                    | -0.3737 | 0.150                      | -0.3071 |
| 0.175                       | -0.4229 | 0.175                    | -0.4004 | 0.175                      | -0.3345 |
| 0.200                       | -0.4606 | 0.200                    | -0.4204 | 0.200                      | -0.3313 |
| 0.250                       | -0.4673 | 0.250                    | -0.4618 | 0.250                      | -0.3760 |
| 0.300                       | -0.4541 | 0.300                    | -0.4539 | 0.300                      | -0.3722 |
| 0.350                       | -0.4437 | 0.350                    | -0.4238 | 0.350                      | -0.3831 |
| 0.400                       | -0.4081 | 0.400                    | -0.4384 | 0.400                      | -0.3774 |
| 0.450                       | -0.3707 | 0.450                    | -0.3890 | 0.450                      | -0.3649 |
| 0.500                       | -0.3613 | 0.500                    | -0.3897 | 0.500                      | -0.3440 |
| 0.550                       | -0.3185 | 0.550                    | -0.3835 | 0.550                      | -0.3551 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.0905  | 0.005 | 0.1213  | 0.005 | 0.0436  |
| 0.010 | -0.1228 | 0.010 | -0.1620 | 0.010 | -0.2964 |

Fight 15 Test point 24

Sweep, deg = 35.6 Mach = 0.76 hp, ft = 33800. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 210.6 Rnpu = 1908000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7125  | 0.000                    | 0.7400  | 0.000                      | 0.7430  |
| 0.005                       | 0.0668  | 0.005                    | 0.0645  | 0.005                      | 0.3083  |
| 0.010                       | -0.1409 | 0.010                    | -0.1202 | 0.010                      | 0.0698  |
| 0.020                       | -0.3250 | 0.020                    | -0.3173 | 0.020                      | -0.1921 |
| 0.040                       | -0.4522 | 0.040                    | -0.4253 | 0.040                      | -0.3169 |
| 0.060                       | -0.4648 | 0.060                    | -0.4397 | 0.060                      | -0.3741 |
| 0.080                       | -0.5002 | 0.080                    | -0.4593 | 0.080                      | -0.3866 |
| 0.100                       | -0.5044 | 0.100                    | -0.4560 | 0.100                      | -0.3940 |
| 0.125                       | -0.4576 | 0.125                    | -0.4556 | 0.125                      | -0.3931 |
| 0.150                       | -0.5134 | 0.150                    | -0.4832 | 0.150                      | -0.4138 |
| 0.175                       | -0.5118 | 0.175                    | -0.4970 | 0.175                      | -0.4378 |
| 0.200                       | -0.5500 | 0.200                    | -0.5183 | 0.200                      | -0.4257 |
| 0.250                       | -0.5503 | 0.250                    | -0.5517 | 0.250                      | -0.4577 |
| 0.300                       | -0.5283 | 0.300                    | -0.5307 | 0.300                      | -0.4479 |
| 0.350                       | -0.5028 | 0.350                    | -0.4888 | 0.350                      | -0.4502 |
| 0.400                       | -0.4593 | 0.400                    | -0.4909 | 0.400                      | -0.4288 |
| 0.450                       | -0.4084 | 0.450                    | -0.4394 | 0.450                      | -0.4044 |
| 0.500                       | -0.3949 | 0.500                    | -0.4280 | 0.500                      | -0.3767 |
| 0.550                       | -0.3412 | 0.550                    | -0.4153 | 0.550                      | -0.3803 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.2770 | 0.005 | 0.3144 | 0.005 | 0.2587  |
| 0.010 | 0.0784 | 0.010 | 0.0658 | 0.010 | -0.0317 |

Fight 15 Test point 25

Sweep, deg = 35.6 Mach = 0.81 hp, ft = 35000. Angle of attack, deg = 2.5  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 226.0 Rnpu = 1953000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.6593  | 0.000                    | 0.6681  | 0.000                      | 0.6778  |
| 0.005                       | -0.2439 | 0.005                    | -0.2641 | 0.005                      | -0.0122 |
| 0.010                       | -0.4576 | 0.010                    | -0.4714 | 0.010                      | -0.3002 |
| 0.020                       | -0.6455 | 0.020                    | -0.6762 | 0.020                      | -0.6173 |
| 0.040                       | -0.7718 | 0.040                    | -0.8163 | 0.040                      | -0.7149 |
| 0.060                       | -0.7699 | 0.060                    | -0.7895 | 0.060                      | -0.7929 |
| 0.080                       | -0.7965 | 0.080                    | -0.7918 | 0.080                      | -0.7633 |
| 0.100                       | -0.7886 | 0.100                    | -0.7939 | 0.100                      | -0.8087 |
| 0.125                       | -0.7001 | 0.125                    | -0.7897 | 0.125                      | -0.6933 |
| 0.150                       | -0.8046 | 0.150                    | -0.7498 | 0.150                      | -0.6934 |
| 0.175                       | -0.7597 | 0.175                    | -0.7993 | 0.175                      | -0.7100 |
| 0.200                       | -0.8267 | 0.200                    | -0.8074 | 0.200                      | -0.7274 |
| 0.250                       | -0.7106 | 0.250                    | -0.8863 | 0.250                      | -0.7873 |
| 0.300                       | -0.7263 | 0.300                    | -0.8673 | 0.300                      | -0.8261 |
| 0.350                       | -0.7565 | 0.350                    | -0.7958 | 0.350                      | -0.8164 |
| 0.400                       | -0.7317 | 0.400                    | -0.8179 | 0.400                      | -0.4409 |
| 0.450                       | -0.5113 | 0.450                    | -0.4588 | 0.450                      | -0.4309 |
| 0.500                       | -0.4404 | 0.500                    | -0.4514 | 0.500                      | -0.3993 |
| 0.550                       | -0.3755 | 0.550                    | -0.4360 | 0.550                      | -0.3991 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4955 | 0.005 | 0.5418 | 0.005 | 0.5260 |
| 0.010 | 0.3311 | 0.010 | 0.3458 | 0.010 | 0.3060 |

Fight 15 Test point 26

Sweep, deg = 35.5 Mach = 0.80 hp, ft = 34800. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 226.8 Rnpu = 1958000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7088  | 0.000                    | 0.7458  | 0.000                      | 0.7469  |
| 0.005                       | 0.1732  | 0.005                    | 0.1699  | 0.005                      | 0.3835  |
| 0.010                       | -0.0336 | 0.010                    | -0.0080 | 0.010                      | 0.1556  |
| 0.020                       | -0.2269 | 0.020                    | -0.2227 | 0.020                      | -0.1070 |
| 0.040                       | -0.3698 | 0.040                    | -0.3512 | 0.040                      | -0.2536 |
| 0.060                       | -0.3959 | 0.060                    | -0.3874 | 0.060                      | -0.3281 |
| 0.080                       | -0.4462 | 0.080                    | -0.4210 | 0.080                      | -0.3553 |
| 0.100                       | -0.5239 | 0.100                    | -0.4331 | 0.100                      | -0.3705 |
| 0.125                       | -0.4105 | 0.125                    | -0.4370 | 0.125                      | -0.3791 |
| 0.150                       | -0.4918 | 0.150                    | -0.4832 | 0.150                      | -0.4088 |
| 0.175                       | -0.4990 | 0.175                    | -0.5074 | 0.175                      | -0.4463 |
| 0.200                       | -0.5449 | 0.200                    | -0.5373 | 0.200                      | -0.4313 |
| 0.250                       | -0.6212 | 0.250                    | -0.5827 | 0.250                      | -0.4819 |
| 0.300                       | -0.5591 | 0.300                    | -0.5834 | 0.300                      | -0.4674 |
| 0.350                       | -0.5383 | 0.350                    | -0.4984 | 0.350                      | -0.5014 |
| 0.400                       | -0.5007 | 0.400                    | -0.5226 | 0.400                      | -0.4603 |
| 0.450                       | -0.4335 | 0.450                    | -0.4698 | 0.450                      | -0.4258 |
| 0.500                       | -0.4120 | 0.500                    | -0.4482 | 0.500                      | -0.3837 |
| 0.550                       | -0.3546 | 0.550                    | -0.4283 | 0.550                      | -0.3848 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2023  | 0.005 | 0.2371  | 0.005 | 0.1911  |
| 0.010 | -0.0075 | 0.010 | -0.0321 | 0.010 | -0.1204 |

Flight 15 Test point 27

Sweep, deg = 35.6 Mach = 0.81 hp, ft = 34400. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 232.5 Rrho = 1998000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7133  | 0.000                    | 0.7345  | 0.000                      | 0.7405  |
| 0.005                       | 0.0340  | 0.005                    | 0.0197  | 0.005                      | 0.2494  |
| 0.010                       | -0.1747 | 0.010                    | -0.1660 | 0.010                      | 0.0038  |
| 0.020                       | -0.3645 | 0.020                    | -0.3837 | 0.020                      | -0.2634 |
| 0.040                       | -0.5015 | 0.040                    | -0.5055 | 0.040                      | -0.4006 |
| 0.060                       | -0.4820 | 0.060                    | -0.5240 | 0.060                      | -0.4821 |
| 0.080                       | -0.5223 | 0.080                    | -0.5436 | 0.080                      | -0.4778 |
| 0.100                       | -0.5771 | 0.100                    | -0.5620 | 0.100                      | -0.4988 |
| 0.125                       | -0.6280 | 0.125                    | -0.5549 | 0.125                      | -0.5034 |
| 0.150                       | -0.6107 | 0.150                    | -0.5823 | 0.150                      | -0.5221 |
| 0.175                       | -0.5737 | 0.175                    | -0.6184 | 0.175                      | -0.5519 |
| 0.200                       | -0.6101 | 0.200                    | -0.6217 | 0.200                      | -0.5109 |
| 0.250                       | -0.6390 | 0.250                    | -0.6954 | 0.250                      | -0.5754 |
| 0.300                       | -0.6659 | 0.300                    | -0.6999 | 0.300                      | -0.5882 |
| 0.350                       | -0.6406 | 0.350                    | -0.5458 | 0.350                      | -0.5172 |
| 0.400                       | -0.5827 | 0.400                    | -0.5355 | 0.400                      | -0.4849 |
| 0.450                       | -0.4491 | 0.450                    | -0.5069 | 0.450                      | -0.4547 |
| 0.500                       | -0.4280 | 0.500                    | -0.4723 | 0.500                      | -0.4052 |
| 0.550                       | -0.3688 | 0.550                    | -0.4432 | 0.550                      | -0.3944 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3322 | 0.005 | 0.3647 | 0.005 | 0.3356 |
| 0.010 | 0.1310 | 0.010 | 0.1294 | 0.010 | 0.0585 |

Flight 15 Test point 28

Sweep, deg = 30.0 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 2.1  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 224.2 Rnpu = 1942000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7938  | 0.000                    | 0.8177  | 0.000                      | 0.8200  |
| 0.005                       | -0.0665 | 0.005                    | -0.0652 | 0.005                      | 0.1901  |
| 0.010                       | -0.3087 | 0.010                    | -0.2924 | 0.010                      | -0.1013 |
| 0.020                       | -0.5287 | 0.020                    | -0.5257 | 0.020                      | -0.4331 |
| 0.040                       | -0.7027 | 0.040                    | -0.6834 | 0.040                      | -0.5741 |
| 0.060                       | -0.6971 | 0.060                    | -0.7020 | 0.060                      | -0.6866 |
| 0.080                       | -0.8046 | 0.080                    | -0.7286 | 0.080                      | -0.6370 |
| 0.100                       | -0.7660 | 0.100                    | -0.7575 | 0.100                      | -0.7424 |
| 0.125                       | -0.6492 | 0.125                    | -0.7510 | 0.125                      | -0.6641 |
| 0.150                       | -0.8317 | 0.150                    | -0.7424 | 0.150                      | -0.6384 |
| 0.175                       | -0.7585 | 0.175                    | -0.7687 | 0.175                      | -0.7229 |
| 0.200                       | -0.8424 | 0.200                    | -0.7782 | 0.200                      | -0.7006 |
| 0.250                       | -0.9047 | 0.250                    | -0.8821 | 0.250                      | -0.7911 |
| 0.300                       | -0.9657 | 0.300                    | -0.9253 | 0.300                      | -0.8200 |
| 0.350                       | -0.9114 | 0.350                    | -0.9537 | 0.350                      | -0.8915 |
| 0.400                       | -0.7294 | 0.400                    | -0.9949 | 0.400                      | -0.9007 |
| 0.450                       | -0.7540 | 0.450                    | -1.0102 | 0.450                      | -0.9429 |
| 0.500                       | -0.4708 | 0.500                    | -0.5682 | 0.500                      | -0.4700 |
| 0.550                       | -0.3875 | 0.550                    | -0.4044 | 0.550                      | -0.3465 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4963 | 0.005 | 0.5233 | 0.005 | 0.4975 |
| 0.010 | 0.2934 | 0.010 | 0.2802 | 0.010 | 0.2170 |

Flight 15 Test point 29

Sweep, deg = 30.0 Mach = 0.81 hp, ft = 34900. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 226.4 R<sub>npu</sub> = 1955000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8246  | 0.000                    | 0.8485  | 0.000                      | 0.8509  |
| 0.005                       | 0.1887  | 0.005                    | 0.2057  | 0.005                      | 0.4260  |
| 0.010                       | -0.0385 | 0.010                    | -0.0079 | 0.010                      | 0.1645  |
| 0.020                       | -0.2603 | 0.020                    | -0.2458 | 0.020                      | -0.1287 |
| 0.040                       | -0.4339 | 0.040                    | -0.4034 | 0.040                      | -0.3008 |
| 0.060                       | -0.4822 | 0.060                    | -0.4516 | 0.060                      | -0.3959 |
| 0.080                       | -0.4895 | 0.080                    | -0.4887 | 0.080                      | -0.4208 |
| 0.100                       | -0.5345 | 0.100                    | -0.5102 | 0.100                      | -0.4476 |
| 0.125                       | -0.5989 | 0.125                    | -0.5259 | 0.125                      | -0.4687 |
| 0.150                       | -0.6209 | 0.150                    | -0.5538 | 0.150                      | -0.5036 |
| 0.175                       | -0.6234 | 0.175                    | -0.6111 | 0.175                      | -0.5750 |
| 0.200                       | -0.5987 | 0.200                    | -0.6152 | 0.200                      | -0.5957 |
| 0.250                       | -0.6842 | 0.250                    | -0.7358 | 0.250                      | -0.5931 |
| 0.300                       | -0.7396 | 0.300                    | -0.7714 | 0.300                      | -0.6338 |
| 0.350                       | -0.7257 | 0.350                    | -0.7997 | 0.350                      | -0.7092 |
| 0.400                       | -0.6997 | 0.400                    | -0.8547 | 0.400                      | -0.7350 |
| 0.450                       | -0.6138 | 0.450                    | -0.5133 | 0.450                      | -0.4154 |
| 0.500                       | -0.4343 | 0.500                    | -0.4493 | 0.500                      | -0.4085 |
| 0.550                       | -0.3871 | 0.550                    | -0.4574 | 0.550                      | -0.4113 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.2940 | 0.005 | 0.3186 | 0.005 | 0.2700  |
| 0.010 | 0.0582 | 0.010 | 0.0318 | 0.010 | -0.0716 |

Flight 15 Test point 30

Sweep, deg = 30.0 Mach = 0.81 hp, ft = 33900. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = 0.4 QBAR, lb/ft<sup>2</sup> = 238.6 Rnpu = 2043000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8084  | 0.000                    | 0.8322  | 0.000                      | 0.8343  |
| 0.005                       | 0.0158  | 0.005                    | 0.0203  | 0.005                      | 0.2688  |
| 0.010                       | -0.2203 | 0.010                    | -0.2023 | 0.010                      | -0.0133 |
| 0.020                       | -0.4371 | 0.020                    | -0.4314 | 0.020                      | -0.3309 |
| 0.040                       | -0.6656 | 0.040                    | -0.5703 | 0.040                      | -0.4802 |
| 0.060                       | -0.6256 | 0.060                    | -0.6187 | 0.060                      | -0.5602 |
| 0.080                       | -0.6544 | 0.080                    | -0.6609 | 0.080                      | -0.6101 |
| 0.100                       | -0.5929 | 0.100                    | -0.6881 | 0.100                      | -0.6510 |
| 0.125                       | -0.6272 | 0.125                    | -0.6672 | 0.125                      | -0.5696 |
| 0.150                       | -0.7596 | 0.150                    | -0.6752 | 0.150                      | -0.6136 |
| 0.175                       | -0.7276 | 0.175                    | -0.7142 | 0.175                      | -0.6656 |
| 0.200                       | -0.8037 | 0.200                    | -0.7315 | 0.200                      | -0.6729 |
| 0.250                       | -0.8697 | 0.250                    | -0.8431 | 0.250                      | -0.7396 |
| 0.300                       | -0.8990 | 0.300                    | -0.8786 | 0.300                      | -0.7967 |
| 0.350                       | -0.7648 | 0.350                    | -0.8935 | 0.350                      | -0.8375 |
| 0.400                       | -0.7416 | 0.400                    | -0.9694 | 0.400                      | -0.8659 |
| 0.450                       | -0.7597 | 0.450                    | -0.9688 | 0.450                      | -0.9193 |
| 0.500                       | -0.4905 | 0.500                    | -0.5966 | 0.500                      | -0.4913 |
| 0.550                       | -0.3814 | 0.550                    | -0.4040 | 0.550                      | -0.3426 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4372 | 0.005 | 0.4620 | 0.005 | 0.4306 |
| 0.010 | 0.2230 | 0.010 | 0.2059 | 0.010 | 0.1297 |



Fight 15 Test point 31

Swsep, deg = 25.0 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 224.3 Rrho = 1946000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9083  | 0.000                    | 0.9370  | 0.000                      | 0.9356  |
| 0.005                       | 0.0919  | 0.005                    | 0.1222  | 0.005                      | 0.3778  |
| 0.010                       | -0.1616 | 0.010                    | -0.1233 | 0.010                      | 0.0827  |
| 0.020                       | -0.4024 | 0.020                    | -0.3745 | 0.020                      | -0.2534 |
| 0.040                       | -0.6469 | 0.040                    | -0.5519 | 0.040                      | -0.4245 |
| 0.060                       | -0.6161 | 0.060                    | -0.6013 | 0.060                      | -0.5225 |
| 0.080                       | -0.751  | 0.080                    | -0.6441 | 0.080                      | -0.5860 |
| 0.100                       | -0.6982 | 0.100                    | -0.6829 | 0.100                      | -0.6434 |
| 0.125                       | -0.6084 | 0.125                    | -0.6814 | 0.125                      | -0.5425 |
| 0.150                       | -0.8108 | 0.150                    | -0.6860 | 0.150                      | -0.8049 |
| 0.175                       | -0.7605 | 0.175                    | -0.7178 | 0.175                      | -0.6678 |
| 0.200                       | -0.8362 | 0.200                    | -0.7448 | 0.200                      | -0.6666 |
| 0.250                       | -0.9123 | 0.250                    | -0.8555 | 0.250                      | -0.7630 |
| 0.300                       | -0.9805 | 0.300                    | -0.9144 | 0.300                      | -0.8095 |
| 0.350                       | -0.9439 | 0.350                    | -0.9607 | 0.350                      | -0.8771 |
| 0.400                       | -0.9571 | 0.400                    | -1.0408 | 0.400                      | -0.9217 |
| 0.450                       | -0.9694 | 0.450                    | -1.0489 | 0.450                      | -0.9511 |
| 0.500                       | -0.8141 | 0.500                    | -1.0807 | 0.500                      | -0.9874 |
| 0.550                       | -0.3993 | 0.550                    | -0.4889 | 0.550                      | -0.4596 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4792 | 0.005 | 0.4923 | 0.005 | 0.4476 |
| 0.010 | 0.2428 | 0.010 | 0.2077 | 0.010 | 0.1059 |

Fight 15 Test point 32

Sweep, deg = 24.9 Mach = 0.81 hp, ft = 34400. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 231.9 R<sub>pu</sub> = 1998000.

Upper surface

| BL 200.8<br>Inboard station |                | BL 260<br>Middle station |                | BL 320<br>Outboard station |                |
|-----------------------------|----------------|--------------------------|----------------|----------------------------|----------------|
| x/c                         | C <sub>p</sub> | x/c                      | C <sub>p</sub> | x/c                        | C <sub>p</sub> |
| 0.000                       | 0.9105         | 0.000                    | 0.9454         | 0.000                      | 0.9405         |
| 0.005                       | 0.2608         | 0.005                    | 0.2905         | 0.005                      | 0.5176         |
| 0.010                       | 0.0142         | 0.010                    | 0.0582         | 0.010                      | 0.2504         |
| 0.020                       | -0.2251        | 0.020                    | -0.1986        | 0.020                      | -0.0721        |
| 0.040                       | -0.4236        | 0.040                    | -0.3783        | 0.040                      | -0.2662        |
| 0.060                       | -0.5260        | 0.060                    | -0.4419        | 0.060                      | -0.3778        |
| 0.080                       | -0.4982        | 0.080                    | -0.4875        | 0.080                      | -0.4131        |
| 0.100                       | -0.5291        | 0.100                    | -0.5212        | 0.100                      | -0.4393        |
| 0.125                       | -0.5844        | 0.125                    | -0.5239        | 0.125                      | -0.4618        |
| 0.150                       | -0.7195        | 0.150                    | -0.5590        | 0.150                      | -0.5067        |
| 0.175                       | -0.6591        | 0.175                    | -0.6261        | 0.175                      | -0.5585        |
| 0.200                       | -0.7334        | 0.200                    | -0.6727        | 0.200                      | -0.5876        |
| 0.250                       | -0.8016        | 0.250                    | -0.7699        | 0.250                      | -0.6704        |
| 0.300                       | -0.8537        | 0.300                    | -0.8075        | 0.300                      | -0.6916        |
| 0.350                       | -0.8548        | 0.350                    | -0.8591        | 0.350                      | -0.7688        |
| 0.400                       | -0.8502        | 0.400                    | -0.9369        | 0.400                      | -0.8169        |
| 0.450                       | -0.7183        | 0.450                    | -0.9505        | 0.450                      | -0.8683        |
| 0.500                       | -0.7612        | 0.500                    | -0.9926        | 0.500                      | -0.8891        |
| 0.550                       | -0.3846        | 0.550                    | -0.5874        | 0.550                      | -0.5002        |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3273 | 0.005 | 0.3395 | 0.005 | 0.2882  |
| 0.010 | 0.0729 | 0.010 | 0.0250 | 0.010 | -0.0889 |

Flight 15 Test point 33

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 225.2 Rnpu = 1951000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9870  | 0.000                    | 1.0191  | 0.000                      | 1.0220  |
| 0.005                       | 0.1907  | 0.005                    | 0.2407  | 0.005                      | 0.4979  |
| 0.010                       | -0.0765 | 0.010                    | -0.0125 | 0.010                      | 0.2026  |
| 0.020                       | -0.3294 | 0.020                    | -0.2778 | 0.020                      | -0.1458 |
| 0.040                       | -0.5832 | 0.040                    | -0.4770 | 0.040                      | -0.3355 |
| 0.060                       | -0.5901 | 0.060                    | -0.5344 | 0.060                      | -0.4543 |
| 0.080                       | -0.7242 | 0.080                    | -0.5870 | 0.080                      | -0.5207 |
| 0.100                       | -0.6644 | 0.100                    | -0.6307 | 0.100                      | -0.5328 |
| 0.125                       | -0.5879 | 0.125                    | -0.6363 | 0.125                      | -0.5164 |
| 0.150                       | -0.7698 | 0.150                    | -0.6541 | 0.150                      | -0.5720 |
| 0.175                       | -0.7703 | 0.175                    | -0.6899 | 0.175                      | -0.6349 |
| 0.200                       | -0.8292 | 0.200                    | -0.7292 | 0.200                      | -0.6308 |
| 0.250                       | -0.9262 | 0.250                    | -0.8318 | 0.250                      | -0.7377 |
| 0.300                       | -1.0035 | 0.300                    | -0.8877 | 0.300                      | -0.7871 |
| 0.350                       | -0.9992 | 0.350                    | -0.9516 | 0.350                      | -0.8602 |
| 0.400                       | -1.0013 | 0.400                    | -1.0369 | 0.400                      | -0.9029 |
| 0.450                       | -0.9943 | 0.450                    | -1.0556 | 0.450                      | -0.9534 |
| 0.500                       | -0.7489 | 0.500                    | -0.5359 | 0.500                      | -0.9696 |
| 0.550                       | -0.4254 | 0.550                    | -0.4024 | 0.550                      | -0.8645 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4901 | 0.005 | 0.4923 | 0.005 | 0.4336 |
| 0.010 | 0.2390 | 0.010 | 0.1808 | 0.010 | 0.0569 |

Fight 15 Test point 34

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 34500. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 229.9 Rnpu = 1985000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9957  | 0.000                    | 1.0314  | 0.000                      | 1.0179  |
| 0.005                       | 0.3250  | 0.005                    | 0.3652  | 0.005                      | 0.5990  |
| 0.010                       | 0.0590  | 0.010                    | 0.1234  | 0.010                      | 0.3232  |
| 0.020                       | -0.1927 | 0.020                    | -0.1500 | 0.020                      | -0.0189 |
| 0.040                       | -0.4084 | 0.040                    | -0.3481 | 0.040                      | -0.2201 |
| 0.060                       | -0.5140 | 0.060                    | -0.4165 | 0.060                      | -0.3316 |
| 0.080                       | -0.5168 | 0.080                    | -0.4735 | 0.080                      | -0.3849 |
| 0.100                       | -0.5272 | 0.100                    | -0.5081 | 0.100                      | -0.4164 |
| 0.125                       | -0.5724 | 0.125                    | -0.5100 | 0.125                      | -0.4458 |
| 0.150                       | -0.7409 | 0.150                    | -0.5637 | 0.150                      | -0.4974 |
| 0.175                       | -0.6869 | 0.175                    | -0.6188 | 0.175                      | -0.5337 |
| 0.200                       | -0.7545 | 0.200                    | -0.6699 | 0.200                      | -0.5759 |
| 0.250                       | -0.8264 | 0.250                    | -0.7826 | 0.250                      | -0.6765 |
| 0.300                       | -0.9126 | 0.300                    | -0.8401 | 0.300                      | -0.6995 |
| 0.350                       | -0.9081 | 0.350                    | -0.8920 | 0.350                      | -0.7895 |
| 0.400                       | -0.9160 | 0.400                    | -0.9734 | 0.400                      | -0.8374 |
| 0.450                       | -0.9335 | 0.450                    | -0.9749 | 0.450                      | -0.8925 |
| 0.500                       | -1.0281 | 0.500                    | -1.0354 | 0.500                      | -0.9246 |
| 0.550                       | -0.4683 | 0.550                    | -0.5380 | 0.550                      | -0.8681 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3660 | 0.005 | 0.3673 | 0.005 | 0.3110  |
| 0.010 | 0.0936 | 0.010 | 0.0306 | 0.010 | -0.1006 |

Fight 15 Test point 35

Sweep, deg = 30.2 Mach = 0.82 hp, ft = 35000. Angle of attack, deg = 2.1  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 235.4 R<sub>npu</sub> = 2000000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7987  | 0.000                    | 0.8157  | 0.000                      | 0.8222  |
| 0.005                       | -0.0316 | 0.005                    | -0.0270 | 0.005                      | 0.2187  |
| 0.010                       | -0.2727 | 0.010                    | -0.2503 | 0.010                      | -0.0667 |
| 0.020                       | -0.4909 | 0.020                    | -0.4788 | 0.020                      | -0.3894 |
| 0.040                       | -0.6526 | 0.040                    | -0.6394 | 0.040                      | -0.5367 |
| 0.060                       | -0.7013 | 0.060                    | -0.6680 | 0.060                      | -0.6503 |
| 0.080                       | -0.7737 | 0.080                    | -0.6944 | 0.080                      | -0.6304 |
| 0.100                       | -0.7460 | 0.100                    | -0.7244 | 0.100                      | -0.7011 |
| 0.125                       | -0.6400 | 0.125                    | -0.7271 | 0.125                      | -0.6695 |
| 0.150                       | -0.8159 | 0.150                    | -0.7434 | 0.150                      | -0.6564 |
| 0.175                       | -0.7479 | 0.175                    | -0.7673 | 0.175                      | -0.7143 |
| 0.200                       | -0.8127 | 0.200                    | -0.7632 | 0.200                      | -0.6928 |
| 0.250                       | -0.8822 | 0.250                    | -0.8543 | 0.250                      | -0.7770 |
| 0.300                       | -0.9485 | 0.300                    | -0.9012 | 0.300                      | -0.8096 |
| 0.350                       | -0.9511 | 0.350                    | -0.9490 | 0.350                      | -0.8734 |
| 0.400                       | -0.9422 | 0.400                    | -1.0210 | 0.400                      | -0.9120 |
| 0.450                       | -0.7876 | 0.450                    | -1.0081 | 0.450                      | -0.9658 |
| 0.500                       | -0.7961 | 0.500                    | -1.0613 | 0.500                      | -0.9950 |
| 0.550                       | -0.4207 | 0.550                    | -0.4599 | 0.550                      | -0.4129 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4794 | 0.005 | 0.5075 | 0.005 | 0.4807 |
| 0.010 | 0.2816 | 0.010 | 0.2682 | 0.010 | 0.1987 |

Flight 15 Test point 36

Sweep, deg = 34.9 Mach = 0.82 hp, ft = 34900. Angle of attack, deg = 2.2  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 237.3 Rnpu = 2008000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.6938  | 0.000                    | 0.7017  | 0.000                      | 0.7127  |
| 0.005                       | -0.1325 | 0.005                    | -0.1534 | 0.005                      | 0.0887  |
| 0.010                       | -0.3467 | 0.010                    | -0.3558 | 0.010                      | -0.1932 |
| 0.020                       | -0.5436 | 0.020                    | -0.5698 | 0.020                      | -0.4931 |
| 0.040                       | -0.6672 | 0.040                    | -0.7028 | 0.040                      | -0.5877 |
| 0.060                       | -0.6773 | 0.060                    | -0.7000 | 0.060                      | -0.7183 |
| 0.080                       | -0.7208 | 0.080                    | -0.7285 | 0.080                      | -0.6725 |
| 0.100                       | -0.7329 | 0.100                    | -0.7508 | 0.100                      | -0.7514 |
| 0.125                       | -0.6639 | 0.125                    | -0.7390 | 0.125                      | -0.6701 |
| 0.150                       | -0.7840 | 0.150                    | -0.7236 | 0.150                      | -0.6729 |
| 0.175                       | -0.7421 | 0.175                    | -0.7490 | 0.175                      | -0.7077 |
| 0.200                       | -0.8034 | 0.200                    | -0.7806 | 0.200                      | -0.6946 |
| 0.250                       | -0.8663 | 0.250                    | -0.8616 | 0.250                      | -0.7676 |
| 0.300                       | -0.8318 | 0.300                    | -0.8972 | 0.300                      | -0.7929 |
| 0.350                       | -0.7118 | 0.350                    | -0.8932 | 0.350                      | -0.8587 |
| 0.400                       | -0.7242 | 0.400                    | -0.9505 | 0.400                      | -0.8856 |
| 0.450                       | -0.7396 | 0.450                    | -0.9211 | 0.450                      | -0.8843 |
| 0.500                       | -0.5755 | 0.500                    | -0.4415 | 0.500                      | -0.3555 |
| 0.550                       | -0.3641 | 0.550                    | -0.3828 | 0.550                      | -0.3272 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4602 | 0.005 | 0.4955 | 0.005 | 0.4834 |
| 0.010 | 0.2826 | 0.010 | 0.2881 | 0.010 | 0.2463 |

Fight 15 Test point 37

Sweep, deg = 32.3 Mach = 0.81 hp, ft = 30000. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 285.5 Rnpu = 2374000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7629  | 0.000                    | 0.7832  | 0.000                      | 0.7882  |
| 0.005                       | -0.0345 | 0.005                    | -0.0265 | 0.005                      | 0.2198  |
| 0.010                       | -0.2667 | 0.010                    | -0.2491 | 0.010                      | -0.0594 |
| 0.020                       | -0.4803 | 0.020                    | -0.4707 | 0.020                      | -0.3710 |
| 0.040                       | -0.6892 | 0.040                    | -0.6103 | 0.040                      | -0.5113 |
| 0.060                       | -0.6224 | 0.060                    | -0.6453 | 0.060                      | -0.5742 |
| 0.080                       | -0.6651 | 0.080                    | -0.6719 | 0.080                      | -0.6408 |
| 0.100                       | -0.6148 | 0.100                    | -0.6894 | 0.100                      | -0.6521 |
| 0.125                       | -0.6391 | 0.125                    | -0.6655 | 0.125                      | -0.5729 |
| 0.150                       | -0.7541 | 0.150                    | -0.6893 | 0.150                      | -0.6203 |
| 0.175                       | -0.7318 | 0.175                    | -0.7241 | 0.175                      | -0.6620 |
| 0.200                       | -0.7990 | 0.200                    | -0.7402 | 0.200                      | -0.6631 |
| 0.250                       | -0.8513 | 0.250                    | -0.8296 | 0.250                      | -0.7636 |
| 0.300                       | -0.7121 | 0.300                    | -0.8435 | 0.300                      | -0.8013 |
| 0.350                       | -0.7466 | 0.350                    | -0.8858 | 0.350                      | -0.8166 |
| 0.400                       | -0.7638 | 0.400                    | -0.9376 | 0.400                      | -0.8412 |
| 0.450                       | -0.7350 | 0.450                    | -0.7975 | 0.450                      | -0.4649 |
| 0.500                       | -0.4474 | 0.500                    | -0.4435 | 0.500                      | -0.3591 |
| 0.550                       | -0.3941 | 0.550                    | -0.4336 | 0.550                      | -0.3905 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4306 | 0.005 | 0.4532 | 0.005 | 0.4236 |
| 0.010 | 0.2267 | 0.010 | 0.2107 | 0.010 | 0.1379 |

Fight 15 Test point 38

Sweep, deg = 26.9 Mach = 0.81 hp, ft = 30000. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 285.5 Rnpu = 2374000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8768  | 0.000                    | 0.9038  | 0.000                      | 0.8998  |
| 0.005                       | 0.1321  | 0.005                    | 0.1531  | 0.005                      | 0.3977  |
| 0.010                       | -0.1130 | 0.010                    | -0.0774 | 0.010                      | 0.1212  |
| 0.020                       | -0.3493 | 0.020                    | -0.3228 | 0.020                      | -0.2078 |
| 0.040                       | -0.5514 | 0.040                    | -0.5020 | 0.040                      | -0.3792 |
| 0.060                       | -0.6193 | 0.060                    | -0.5492 | 0.060                      | -0.4740 |
| 0.080                       | -0.6249 | 0.080                    | -0.5967 | 0.080                      | -0.5643 |
| 0.100                       | -0.5211 | 0.100                    | -0.6280 | 0.100                      | -0.5081 |
| 0.125                       | -0.6118 | 0.125                    | -0.6140 | 0.125                      | -0.5309 |
| 0.150                       | -0.7776 | 0.150                    | -0.6344 | 0.150                      | -0.5852 |
| 0.175                       | -0.7095 | 0.175                    | -0.6818 | 0.175                      | -0.6305 |
| 0.200                       | -0.7830 | 0.200                    | -0.6997 | 0.200                      | -0.6250 |
| 0.250                       | -0.8509 | 0.250                    | -0.8201 | 0.250                      | -0.7272 |
| 0.300                       | -0.9204 | 0.300                    | -0.8724 | 0.300                      | -0.7790 |
| 0.350                       | -0.9162 | 0.350                    | -0.9109 | 0.350                      | -0.8082 |
| 0.400                       | -0.8942 | 0.400                    | -0.9668 | 0.400                      | -0.8697 |
| 0.450                       | -0.7356 | 0.450                    | -0.9941 | 0.450                      | -0.9270 |
| 0.500                       | -0.7718 | 0.500                    | -1.0367 | 0.500                      | -0.9513 |
| 0.550                       | -0.3901 | 0.550                    | -0.5310 | 0.550                      | -0.4484 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4080 | 0.005 | 0.4208 | 0.005 | 0.3747 |
| 0.010 | 0.1735 | 0.010 | 0.1341 | 0.010 | 0.0338 |



Fight 15 Test point 39

Sweep, deg = 20.3 Mach = 0.80 hp, ft = 30100. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -1.3 QBAR, lb/ft<sup>2</sup> = 282.5 R<sub>npu</sub> = 2355000.

Upper surface

| BL 200.8<br>Inboard station |                | BL 260<br>Middle station |                | BL 320<br>Outboard station |                |
|-----------------------------|----------------|--------------------------|----------------|----------------------------|----------------|
| x/c                         | C <sub>p</sub> | x/c                      | C <sub>p</sub> | x/c                        | C <sub>p</sub> |
| 0.000                       | 1.0067         | 0.000                    | 1.0397         | 0.000                      | 1.0326         |
| 0.005                       | 0.3182         | 0.005                    | 0.3739         | 0.005                      | 0.6074         |
| 0.010                       | 0.0518         | 0.010                    | 0.1183         | 0.010                      | 0.3309         |
| 0.020                       | -0.2046        | 0.020                    | -0.1543        | 0.020                      | -0.0178        |
| 0.040                       | -0.4233        | 0.040                    | -0.3500        | 0.040                      | -0.2240        |
| 0.060                       | -0.5265        | 0.060                    | -0.4244        | 0.060                      | -0.3408        |
| 0.080                       | -0.5205        | 0.080                    | -0.4808        | 0.080                      | -0.3933        |
| 0.100                       | -0.5321        | 0.100                    | -0.5173        | 0.100                      | -0.4220        |
| 0.125                       | -0.5713        | 0.125                    | -0.5140        | 0.125                      | -0.4443        |
| 0.150                       | -0.7459        | 0.150                    | -0.5799        | 0.150                      | -0.5065        |
| 0.175                       | -0.7082        | 0.175                    | -0.6280        | 0.175                      | -0.5380        |
| 0.200                       | -0.7702        | 0.200                    | -0.6707        | 0.200                      | -0.5843        |
| 0.250                       | -0.8435        | 0.250                    | -0.7806        | 0.250                      | -0.6793        |
| 0.300                       | -0.9296        | 0.300                    | -0.8417        | 0.300                      | -0.7126        |
| 0.350                       | -0.9324        | 0.350                    | -0.8958        | 0.350                      | -0.7904        |
| 0.400                       | -0.9517        | 0.400                    | -0.9846        | 0.400                      | -0.8453        |
| 0.450                       | -0.9502        | 0.450                    | -1.0057        | 0.450                      | -0.8982        |
| 0.500                       | -1.0563        | 0.500                    | -1.0591        | 0.500                      | -0.9401        |
| 0.550                       | -0.5069        | 0.550                    | -0.5060        | 0.550                      | -0.8858        |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3902 | 0.005 | 0.3789 | 0.005 | 0.3176  |
| 0.010 | 0.1172 | 0.010 | 0.0415 | 0.010 | -0.0977 |

Flight 15 Test point 40

Sweep, deg = 30.0 Mach = 0.75 hp, ft = 30000. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 247.8 Rnpu = 2192000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7766  | 0.000                    | 0.7951  | 0.000                      | 0.8132  |
| 0.005                       | -0.1544 | 0.005                    | -0.1387 | 0.005                      | 0.1584  |
| 0.010                       | -0.4020 | 0.010                    | -0.3824 | 0.010                      | -0.1404 |
| 0.020                       | -0.6174 | 0.020                    | -0.6023 | 0.020                      | -0.4685 |
| 0.040                       | -0.7772 | 0.040                    | -0.7309 | 0.040                      | -0.5929 |
| 0.060                       | -0.8034 | 0.060                    | -0.7287 | 0.060                      | -0.6482 |
| 0.080                       | -0.6399 | 0.080                    | -0.7272 | 0.080                      | -0.6450 |
| 0.100                       | -0.7235 | 0.100                    | -0.7205 | 0.100                      | -0.6291 |
| 0.125                       | -0.7503 | 0.125                    | -0.7054 | 0.125                      | -0.6171 |
| 0.150                       | -0.7813 | 0.150                    | -0.7200 | 0.150                      | -0.6294 |
| 0.175                       | -0.6818 | 0.175                    | -0.7437 | 0.175                      | -0.6601 |
| 0.200                       | -0.7194 | 0.200                    | -0.7433 | 0.200                      | -0.6371 |
| 0.250                       | -0.7744 | 0.250                    | -0.8075 | 0.250                      | -0.6562 |
| 0.300                       | -0.7423 | 0.300                    | -0.7540 | 0.300                      | -0.6281 |
| 0.350                       | -0.6563 | 0.350                    | -0.6585 | 0.350                      | -0.6073 |
| 0.400                       | -0.5822 | 0.400                    | -0.6332 | 0.400                      | -0.5537 |
| 0.450                       | -0.5142 | 0.450                    | -0.5654 | 0.450                      | -0.5161 |
| 0.500                       | -0.4801 | 0.500                    | -0.5396 | 0.500                      | -0.4635 |
| 0.550                       | -0.4133 | 0.550                    | -0.5064 | 0.550                      | -0.4521 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5046 | 0.005 | 0.5296 | 0.005 | 0.4875 |
| 0.010 | 0.3040 | 0.010 | 0.2853 | 0.010 | 0.2031 |

Fight 15 Test point 41

$\alpha$  sweep, deg = 20.0 Mach = 0.75 hp, ft = 30000. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 249.8 Rnpu = 2199000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0261  | 0.000                    | 1.0646  | 0.000                      | 1.0620  |
| 0.005                       | 0.1764  | 0.005                    | 0.2515  | 0.005                      | 0.5413  |
| 0.010                       | -0.1036 | 0.010                    | -0.0220 | 0.010                      | 0.2337  |
| 0.020                       | -0.3728 | 0.020                    | -0.3032 | 0.020                      | -0.1317 |
| 0.040                       | -0.5814 | 0.040                    | -0.4892 | 0.040                      | -0.3287 |
| 0.060                       | -0.6601 | 0.060                    | -0.5448 | 0.060                      | -0.4363 |
| 0.080                       | -0.6603 | 0.080                    | -0.5928 | 0.080                      | -0.4748 |
| 0.100                       | -0.6625 | 0.100                    | -0.6148 | 0.100                      | -0.4979 |
| 0.125                       | -0.6605 | 0.125                    | -0.6211 | 0.125                      | -0.5126 |
| 0.150                       | -0.8579 | 0.150                    | -0.6650 | 0.150                      | -0.5606 |
| 0.175                       | -0.7868 | 0.175                    | -0.7242 | 0.175                      | -0.6046 |
| 0.200                       | -0.8306 | 0.200                    | -0.7694 | 0.200                      | -0.6229 |
| 0.250                       | -0.9162 | 0.250                    | -0.8564 | 0.250                      | -0.6823 |
| 0.300                       | -0.9716 | 0.300                    | -0.9003 | 0.300                      | -0.7074 |
| 0.350                       | -0.9588 | 0.350                    | -0.9442 | 0.350                      | -0.7731 |
| 0.400                       | -0.5793 | 0.400                    | -0.9943 | 0.400                      | -0.7270 |
| 0.450                       | -0.5027 | 0.450                    | -0.5294 | 0.450                      | -0.5641 |
| 0.500                       | -0.4874 | 0.500                    | -0.5311 | 0.500                      | -0.5163 |
| 0.550                       | -0.4296 | 0.550                    | -0.5264 | 0.550                      | -0.4705 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4981 | 0.005 | 0.4790 | 0.005 | 0.4020  |
| 0.010 | 0.2305 | 0.010 | 0.1457 | 0.010 | -0.0059 |

Fight 15 Test point 42

Sweep, deg = 34.1 Mach = 0.75 hp, ft = 30000. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 248.9 Rrho = 2196000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.6858  | 0.000                    | 0.6965  | 0.000                      | 0.7225  |
| 0.005                       | -0.2184 | 0.005                    | -0.2168 | 0.005                      | 0.0707  |
| 0.010                       | -0.4439 | 0.010                    | -0.4346 | 0.010                      | -0.2163 |
| 0.020                       | -0.6269 | 0.020                    | -0.6252 | 0.020                      | -0.5084 |
| 0.040                       | -0.7060 | 0.040                    | -0.7214 | 0.040                      | -0.5987 |
| 0.060                       | -0.7533 | 0.060                    | -0.6996 | 0.060                      | -0.6298 |
| 0.080                       | -0.6653 | 0.080                    | -0.6847 | 0.080                      | -0.6046 |
| 0.100                       | -0.7239 | 0.100                    | -0.6661 | 0.100                      | -0.5897 |
| 0.125                       | -0.7320 | 0.125                    | -0.6371 | 0.125                      | -0.5707 |
| 0.150                       | -0.6272 | 0.150                    | -0.6601 | 0.150                      | -0.5759 |
| 0.175                       | -0.6386 | 0.175                    | -0.6708 | 0.175                      | -0.5979 |
| 0.200                       | -0.7071 | 0.200                    | -0.6671 | 0.200                      | -0.5680 |
| 0.250                       | -0.6700 | 0.250                    | -0.6954 | 0.250                      | -0.5875 |
| 0.300                       | -0.6459 | 0.300                    | -0.6525 | 0.300                      | -0.5561 |
| 0.350                       | -0.5922 | 0.350                    | -0.5991 | 0.350                      | -0.5378 |
| 0.400                       | -0.5337 | 0.400                    | -0.5760 | 0.400                      | -0.5051 |
| 0.450                       | -0.4727 | 0.450                    | -0.5082 | 0.450                      | -0.4742 |
| 0.500                       | -0.4416 | 0.500                    | -0.4833 | 0.500                      | -0.4282 |
| 0.550                       | -0.3818 | 0.550                    | -0.4603 | 0.550                      | -0.4240 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4742 | 0.005 | 0.5033 | 0.005 | 0.4708 |
| 0.010 | 0.2916 | 0.010 | 0.2895 | 0.010 | 0.2178 |

Flight 15 Test point 43

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 353.2 Rnpu = 2837000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9838  | 0.000                    | 1.0150  | 0.000                      | 1.0039  |
| 0.005                       | 0.4008  | 0.005                    | 0.4502  | 0.005                      | 0.6593  |
| 0.010                       | 0.1408  | 0.010                    | 0.2059  | 0.010                      | 0.4034  |
| 0.020                       | -0.1167 | 0.020                    | -0.0682 | 0.020                      | 0.0686  |
| 0.040                       | -0.3346 | 0.040                    | -0.2649 | 0.040                      | -0.1432 |
| 0.060                       | -0.4196 | 0.060                    | -0.3463 | 0.060                      | -0.2675 |
| 0.080                       | -0.4515 | 0.080                    | -0.4059 | 0.080                      | -0.3241 |
| 0.100                       | -0.4904 | 0.100                    | -0.4396 | 0.100                      | -0.3604 |
| 0.125                       | -0.5464 | 0.125                    | -0.4654 | 0.125                      | -0.3894 |
| 0.150                       | -0.7105 | 0.150                    | -0.5188 | 0.150                      | -0.4421 |
| 0.175                       | -0.6102 | 0.175                    | -0.5796 | 0.175                      | -0.4973 |
| 0.200                       | -0.6735 | 0.200                    | -0.6260 | 0.200                      | -0.5385 |
| 0.250                       | -0.7590 | 0.250                    | -0.7192 | 0.250                      | -0.5910 |
| 0.300                       | -0.8507 | 0.300                    | -0.7807 | 0.300                      | -0.6738 |
| 0.350                       | -0.8710 | 0.350                    | -0.8265 | 0.350                      | -0.7423 |
| 0.400                       | -0.8933 | 0.400                    | -0.9171 | 0.400                      | -0.7908 |
| 0.450                       | -0.9134 | 0.450                    | -0.9427 | 0.450                      | -0.8473 |
| 0.500                       | -0.9698 | 0.500                    | -0.9988 | 0.500                      | -0.8845 |
| 0.550                       | -0.4248 | 0.550                    | -0.9154 | 0.550                      | -0.8897 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2819  | 0.005 | 0.2682  | 0.005 | 0.2038  |
| 0.010 | -0.0012 | 0.010 | -0.0826 | 0.010 | -0.2238 |

Light 16 Test point 1

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 30000. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = 0.5 QBAR, lb/ft<sup>2</sup> = 283.1 Rnpu = 2361000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9885  | 0.000                    | 1.0202  | 0.000                      | 1.0131  |
| 0.005                       | 0.2129  | 0.005                    | 0.2559  | 0.005                      | 0.5047  |
| 0.010                       | -0.0592 | 0.010                    | 0.0003  | 0.010                      | 0.2143  |
| 0.020                       | -0.3111 | 0.020                    | -0.2658 | 0.020                      | -0.1394 |
| 0.040                       | -0.5850 | 0.040                    | -0.4642 | 0.040                      | -0.3319 |
| 0.060                       | -0.5567 | 0.060                    | -0.5264 | 0.060                      | -0.4509 |
| 0.080                       | -0.6505 | 0.080                    | -0.5839 | 0.080                      | -0.5087 |
| 0.100                       | -0.7316 | 0.100                    | -0.6208 | 0.100                      | -0.5720 |
| 0.125                       | -0.6472 | 0.125                    | -0.6320 | 0.125                      | -0.4868 |
| 0.150                       | -0.7336 | 0.150                    | -0.6453 | 0.150                      | -0.5655 |
| 0.175                       | -0.7494 | 0.175                    | -0.6936 | 0.175                      | -0.6402 |
| 0.200                       | -0.8122 | 0.200                    | -0.7316 | 0.200                      | -0.6261 |
| 0.250                       | -0.9151 | 0.250                    | -0.8357 | 0.250                      | -0.7397 |
| 0.300                       | -0.9987 | 0.300                    | -0.8993 | 0.300                      | -0.7914 |
| 0.350                       | -0.9843 | 0.350                    | -0.9524 | 0.350                      | -0.8693 |
| 0.400                       | -0.9846 | 0.400                    | -1.0362 | 0.400                      | -0.9185 |
| 0.450                       | -0.9790 | 0.450                    | -1.0566 | 0.450                      | -0.9618 |
| 0.500                       | -0.8741 | 0.500                    | -0.6857 | 0.500                      | -1.0034 |
| 0.550                       | -0.4371 | 0.550                    | -0.4246 | 0.550                      | -0.5731 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4643 | 0.005 | 0.4599 | 0.005 | 0.4021 |
| 0.010 | 0.2059 | 0.010 | 0.1453 | 0.010 | 0.0205 |

Fight 16 Test point 2

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 29300. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 289.9 Rnpu = 2413000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9850  | 0.000                    | 1.0229  | 0.000                      | 1.0114  |
| 0.005                       | 0.3869  | 0.005                    | 0.4291  | 0.005                      | 0.6423  |
| 0.010                       | 0.1237  | 0.010                    | 0.1864  | 0.010                      | 0.3798  |
| 0.020                       | -0.1302 | 0.020                    | -0.0856 | 0.020                      | 0.0427  |
| 0.040                       | -0.3543 | 0.040                    | -0.2875 | 0.040                      | -0.1699 |
| 0.060                       | -0.4445 | 0.060                    | -0.3641 | 0.060                      | -0.2915 |
| 0.080                       | -0.5308 | 0.080                    | -0.4219 | 0.080                      | -0.3456 |
| 0.100                       | -0.5387 | 0.100                    | -0.4552 | 0.100                      | -0.3785 |
| 0.125                       | -0.5464 | 0.125                    | -0.4783 | 0.125                      | -0.4106 |
| 0.150                       | -0.6137 | 0.150                    | -0.5289 | 0.150                      | -0.4630 |
| 0.175                       | -0.6264 | 0.175                    | -0.5982 | 0.175                      | -0.5158 |
| 0.200                       | -0.7242 | 0.200                    | -0.6513 | 0.200                      | -0.5526 |
| 0.250                       | -0.8038 | 0.250                    | -0.7486 | 0.250                      | -0.6146 |
| 0.300                       | -0.8869 | 0.300                    | -0.8063 | 0.300                      | -0.6987 |
| 0.350                       | -0.8877 | 0.350                    | -0.8642 | 0.350                      | -0.7685 |
| 0.400                       | -0.8996 | 0.400                    | -0.9452 | 0.400                      | -0.8218 |
| 0.450                       | -0.9192 | 0.450                    | -0.9697 | 0.450                      | -0.8778 |
| 0.500                       | -1.0121 | 0.500                    | -1.0264 | 0.500                      | -0.9129 |
| 0.550                       | -0.4749 | 0.550                    | -0.7957 | 0.550                      | -0.8906 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2878 | 0.005 | 0.2930  | 0.005 | 0.2287  |
| 0.010 | 0.0033 | 0.010 | -0.0619 | 0.010 | -0.2028 |

Fight 16 Test point 3

Sweep, deg = 20.0 Mach = 0.81 hp, ft = 30400. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 280.5 Rnpu = 2342000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9866  | 0.000                    | 1.0251  | 0.000                      | 1.0110  |
| 0.005                       | 0.4071  | 0.005                    | 0.4524  | 0.005                      | 0.6612  |
| 0.010                       | 0.1473  | 0.010                    | 0.2145  | 0.010                      | 0.4031  |
| 0.020                       | -0.1053 | 0.020                    | -0.0555 | 0.020                      | 0.0662  |
| 0.040                       | -0.3275 | 0.040                    | -0.2573 | 0.040                      | -0.1431 |
| 0.060                       | -0.4196 | 0.060                    | -0.3379 | 0.060                      | -0.2707 |
| 0.080                       | -0.5027 | 0.080                    | -0.3998 | 0.080                      | -0.3246 |
| 0.100                       | -0.5187 | 0.100                    | -0.4356 | 0.100                      | -0.3613 |
| 0.125                       | -0.5288 | 0.125                    | -0.4579 | 0.125                      | -0.3914 |
| 0.150                       | -0.5954 | 0.150                    | -0.5106 | 0.150                      | -0.4419 |
| 0.175                       | -0.6082 | 0.175                    | -0.5791 | 0.175                      | -0.4981 |
| 0.200                       | -0.7089 | 0.200                    | -0.6329 | 0.200                      | -0.5367 |
| 0.250                       | -0.7859 | 0.250                    | -0.7329 | 0.250                      | -0.6086 |
| 0.300                       | -0.8664 | 0.300                    | -0.7875 | 0.300                      | -0.6815 |
| 0.350                       | -0.8753 | 0.350                    | -0.8471 | 0.350                      | -0.7561 |
| 0.400                       | -0.8873 | 0.400                    | -0.9328 | 0.400                      | -0.8072 |
| 0.450                       | -0.9041 | 0.450                    | -0.9571 | 0.450                      | -0.8658 |
| 0.500                       | -1.0093 | 0.500                    | -1.0160 | 0.500                      | -0.9039 |
| 0.550                       | -0.5934 | 0.550                    | -0.7090 | 0.550                      | -0.8846 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2798  | 0.005 | 0.2777  | 0.005 | 0.2190  |
| 0.010 | -0.0067 | 0.010 | -0.0767 | 0.010 | -0.2123 |



Fight 16 Test point 4

Sweep, deg = 25.3 Mach = 0.81 hp, ft = 25000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 356.7 Rnpu = 2852000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9113  | 0.000                    | 0.9437  | 0.000                      | 0.9321  |
| 0.005                       | 0.2960  | 0.005                    | 0.3279  | 0.005                      | 0.5424  |
| 0.010                       | 0.0450  | 0.010                    | 0.0935  | 0.010                      | 0.2852  |
| 0.020                       | -0.1959 | 0.020                    | -0.1605 | 0.020                      | -0.0433 |
| 0.040                       | -0.3940 | 0.040                    | -0.3469 | 0.040                      | -0.2329 |
| 0.060                       | -0.4824 | 0.060                    | -0.4172 | 0.060                      | -0.3508 |
| 0.080                       | -0.5648 | 0.080                    | -0.4685 | 0.080                      | -0.3946 |
| 0.100                       | -0.5292 | 0.100                    | -0.4968 | 0.100                      | -0.4197 |
| 0.125                       | -0.5452 | 0.125                    | -0.4928 | 0.125                      | -0.4370 |
| 0.150                       | -0.6174 | 0.150                    | -0.5456 | 0.150                      | -0.4703 |
| 0.175                       | -0.6427 | 0.175                    | -0.6095 | 0.175                      | -0.5447 |
| 0.200                       | -0.7141 | 0.200                    | -0.6466 | 0.200                      | -0.5748 |
| 0.250                       | -0.7950 | 0.250                    | -0.7495 | 0.250                      | -0.6708 |
| 0.300                       | -0.8630 | 0.300                    | -0.8111 | 0.300                      | -0.7034 |
| 0.350                       | -0.8648 | 0.350                    | -0.8693 | 0.350                      | -0.7734 |
| 0.400                       | -0.8537 | 0.400                    | -0.9372 | 0.400                      | -0.8248 |
| 0.450                       | -0.7537 | 0.450                    | -0.9554 | 0.450                      | -0.8759 |
| 0.500                       | -0.8024 | 0.500                    | -1.0031 | 0.500                      | -0.8999 |
| 0.550                       | -0.4485 | 0.550                    | -0.6906 | 0.550                      | -0.6573 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2917 | 0.005 | 0.2968  | 0.005 | 0.2395  |
| 0.010 | 0.0316 | 0.010 | -0.0241 | 0.010 | -0.1507 |

Fight 16 Test point 5

Sweep, deg = 22.5 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 353.3 Rnpu = 2836000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9557  | 0.000                    | 0.9894  | 0.000                      | 0.9787  |
| 0.005                       | 0.3179  | 0.005                    | 0.3601  | 0.005                      | 0.5780  |
| 0.010                       | 0.0578  | 0.010                    | 0.1137  | 0.010                      | 0.3149  |
| 0.020                       | -0.1897 | 0.020                    | -0.1509 | 0.020                      | -0.0217 |
| 0.040                       | -0.4011 | 0.040                    | -0.3458 | 0.040                      | -0.2258 |
| 0.060                       | -0.4812 | 0.060                    | -0.4162 | 0.060                      | -0.3476 |
| 0.080                       | -0.5720 | 0.080                    | -0.4726 | 0.080                      | -0.3949 |
| 0.100                       | -0.5607 | 0.100                    | -0.5041 | 0.100                      | -0.4246 |
| 0.125                       | -0.5507 | 0.125                    | -0.5162 | 0.125                      | -0.4387 |
| 0.150                       | -0.6359 | 0.150                    | -0.5463 | 0.150                      | -0.4740 |
| 0.175                       | -0.6518 | 0.175                    | -0.6154 | 0.175                      | -0.5467 |
| 0.200                       | -0.7199 | 0.200                    | -0.6667 | 0.200                      | -0.5694 |
| 0.250                       | -0.8072 | 0.250                    | -0.7636 | 0.250                      | -0.6614 |
| 0.300                       | -0.8673 | 0.300                    | -0.8142 | 0.300                      | -0.7118 |
| 0.350                       | -0.8914 | 0.350                    | -0.8784 | 0.350                      | -0.7856 |
| 0.400                       | -0.9082 | 0.400                    | -0.9560 | 0.400                      | -0.8429 |
| 0.450                       | -0.9301 | 0.450                    | -0.9874 | 0.450                      | -0.8946 |
| 0.500                       | -1.0042 | 0.500                    | -1.0355 | 0.500                      | -0.9310 |
| 0.550                       | -0.4613 | 0.550                    | -0.6851 | 0.550                      | -0.8882 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3252 | 0.005 | 0.3244  | 0.005 | 0.2599  |
| 0.010 | 0.0480 | 0.010 | -0.0120 | 0.010 | -0.1468 |

Flight 16 Test point 6

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 355.2 Rnpu = 2842000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9875  | 0.000                    | 1.0220  | 0.000                      | 1.0111  |
| 0.005                       | 0.3685  | 0.005                    | 0.4183  | 0.005                      | 0.6350  |
| 0.010                       | 0.1061  | 0.010                    | 0.1695  | 0.010                      | 0.3727  |
| 0.020                       | -0.1513 | 0.020                    | -0.1017 | 0.020                      | 0.0289  |
| 0.040                       | -0.3713 | 0.040                    | -0.3012 | 0.040                      | -0.1773 |
| 0.060                       | -0.4548 | 0.060                    | -0.3823 | 0.060                      | -0.3034 |
| 0.080                       | -0.5525 | 0.080                    | -0.4370 | 0.080                      | -0.3571 |
| 0.100                       | -0.5299 | 0.100                    | -0.4720 | 0.100                      | -0.3900 |
| 0.125                       | -0.5514 | 0.125                    | -0.4896 | 0.125                      | -0.4047 |
| 0.150                       | -0.6230 | 0.150                    | -0.5306 | 0.150                      | -0.4487 |
| 0.175                       | -0.6356 | 0.175                    | -0.5987 | 0.175                      | -0.5207 |
| 0.200                       | -0.7240 | 0.200                    | -0.6466 | 0.200                      | -0.5455 |
| 0.250                       | -0.8113 | 0.250                    | -0.7452 | 0.250                      | -0.6371 |
| 0.300                       | -0.9004 | 0.300                    | -0.8055 | 0.300                      | -0.6988 |
| 0.350                       | -0.8750 | 0.350                    | -0.8714 | 0.350                      | -0.7731 |
| 0.400                       | -0.9081 | 0.400                    | -0.9477 | 0.400                      | -0.8268 |
| 0.450                       | -0.9246 | 0.450                    | -0.9771 | 0.450                      | -0.8818 |
| 0.500                       | -1.0361 | 0.500                    | -1.0364 | 0.500                      | -0.9205 |
| 0.550                       | -0.6068 | 0.550                    | -0.7875 | 0.550                      | -0.9240 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3224 | 0.005 | 0.3086  | 0.005 | 0.2423  |
| 0.010 | 0.0364 | 0.010 | -0.0397 | 0.010 | -0.1809 |

Fight 16 Test point 7

Sweep, deg = 20.1 Mach = 0.80 hp, ft = 24900. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -5.2 QBAR, lb/ft<sup>2</sup> = 356.9 Rnpu = 2849000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0515  | 0.000                    | 1.0868  | 0.000                      | 1.0748  |
| 0.005                       | 0.3988  | 0.005                    | 0.4681  | 0.005                      | 0.6913  |
| 0.010                       | 0.1279  | 0.010                    | 0.2121  | 0.010                      | 0.4243  |
| 0.020                       | -0.1380 | 0.020                    | -0.0654 | 0.020                      | 0.0745  |
| 0.040                       | -0.3664 | 0.040                    | -0.2762 | 0.040                      | -0.1388 |
| 0.060                       | -0.4456 | 0.060                    | -0.3544 | 0.060                      | -0.2661 |
| 0.080                       | -0.5352 | 0.080                    | -0.4187 | 0.080                      | -0.3249 |
| 0.100                       | -0.5683 | 0.100                    | -0.4513 | 0.100                      | -0.3620 |
| 0.125                       | -0.5396 | 0.125                    | -0.4710 | 0.125                      | -0.3804 |
| 0.150                       | -0.6250 | 0.150                    | -0.5243 | 0.150                      | -0.4269 |
| 0.175                       | -0.6403 | 0.175                    | -0.5787 | 0.175                      | -0.4926 |
| 0.200                       | -0.7281 | 0.200                    | -0.6227 | 0.200                      | -0.5181 |
| 0.250                       | -0.8279 | 0.250                    | -0.7379 | 0.250                      | -0.6283 |
| 0.300                       | -0.9233 | 0.300                    | -0.8053 | 0.300                      | -0.6720 |
| 0.350                       | -0.9251 | 0.350                    | -0.8706 | 0.350                      | -0.7561 |
| 0.400                       | -0.9392 | 0.400                    | -0.9492 | 0.400                      | -0.8075 |
| 0.450                       | -0.9464 | 0.450                    | -0.9816 | 0.450                      | -0.8602 |
| 0.500                       | -1.0603 | 0.500                    | -1.0363 | 0.500                      | -0.8976 |
| 0.550                       | -0.4138 | 0.550                    | -0.6352 | 0.550                      | -0.8822 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3790 | 0.005 | 0.3563  | 0.005 | 0.2842  |
| 0.010 | 0.0900 | 0.010 | -0.0025 | 0.010 | -0.1481 |

Fight 16 Test point 8

Sweep, deg = 30.4 Mach = 0.75 hp, ft = 24900. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 310.7 Rnpu = 2638000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7883  | 0.000                    | 0.8173  | 0.000                      | 0.8211  |
| 0.005                       | -0.0446 | 0.005                    | -0.0319 | 0.005                      | 0.2450  |
| 0.010                       | -0.2865 | 0.010                    | -0.2620 | 0.010                      | -0.0382 |
| 0.020                       | -0.5028 | 0.020                    | -0.4831 | 0.020                      | -0.3540 |
| 0.040                       | -0.6358 | 0.040                    | -0.6157 | 0.040                      | -0.4840 |
| 0.060                       | -0.6971 | 0.060                    | -0.6349 | 0.060                      | -0.5534 |
| 0.080                       | -0.6476 | 0.080                    | -0.6488 | 0.080                      | -0.5612 |
| 0.100                       | -0.6964 | 0.100                    | -0.6464 | 0.100                      | -0.5647 |
| 0.125                       | -0.6036 | 0.125                    | -0.6218 | 0.125                      | -0.5470 |
| 0.150                       | -0.7095 | 0.150                    | -0.6509 | 0.150                      | -0.5690 |
| 0.175                       | -0.6477 | 0.175                    | -0.6848 | 0.175                      | -0.6014 |
| 0.200                       | -0.7388 | 0.200                    | -0.6993 | 0.200                      | -0.5830 |
| 0.250                       | -0.7421 | 0.250                    | -0.7747 | 0.250                      | -0.6155 |
| 0.300                       | -0.7156 | 0.300                    | -0.7124 | 0.300                      | -0.5955 |
| 0.350                       | -0.6467 | 0.350                    | -0.6548 | 0.350                      | -0.5902 |
| 0.400                       | -0.5771 | 0.400                    | -0.6239 | 0.400                      | -0.5427 |
| 0.450                       | -0.5075 | 0.450                    | -0.5581 | 0.450                      | -0.5015 |
| 0.500                       | -0.4816 | 0.500                    | -0.5275 | 0.500                      | -0.4545 |
| 0.550                       | -0.4158 | 0.550                    | -0.5053 | 0.550                      | -0.4522 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4233 | 0.005 | 0.4458 | 0.005 | 0.3948 |
| 0.010 | 0.2085 | 0.010 | 0.1892 | 0.010 | 0.0901 |

Fight 16 Test point 9

Sweep, deg = 27.6 Mach = 0.75 hp, ft = 24900. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 312.1 Rnpu = 2647000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8442  | 0.000                    | 0.8717  | 0.000                      | 0.8787  |
| 0.005                       | 0.0251  | 0.005                    | 0.0508  | 0.005                      | 0.3233  |
| 0.010                       | -0.2292 | 0.010                    | -0.1948 | 0.010                      | 0.0365  |
| 0.020                       | -0.4580 | 0.020                    | -0.4374 | 0.020                      | -0.2986 |
| 0.040                       | -0.6175 | 0.040                    | -0.5867 | 0.040                      | -0.4519 |
| 0.060                       | -0.6752 | 0.060                    | -0.6150 | 0.060                      | -0.5350 |
| 0.080                       | -0.7395 | 0.080                    | -0.6395 | 0.080                      | -0.5492 |
| 0.100                       | -0.6878 | 0.100                    | -0.6429 | 0.100                      | -0.5569 |
| 0.125                       | -0.5964 | 0.125                    | -0.6323 | 0.125                      | -0.5440 |
| 0.150                       | -0.7186 | 0.150                    | -0.6594 | 0.150                      | -0.5712 |
| 0.175                       | -0.6955 | 0.175                    | -0.7022 | 0.175                      | -0.6164 |
| 0.200                       | -0.7377 | 0.200                    | -0.7102 | 0.200                      | -0.6098 |
| 0.250                       | -0.7611 | 0.250                    | -0.8409 | 0.250                      | -0.6526 |
| 0.300                       | -0.7397 | 0.300                    | -0.8004 | 0.300                      | -0.6421 |
| 0.350                       | -0.6893 | 0.350                    | -0.6492 | 0.350                      | -0.6168 |
| 0.400                       | -0.6033 | 0.400                    | -0.6634 | 0.400                      | -0.5655 |
| 0.450                       | -0.5279 | 0.450                    | -0.5858 | 0.450                      | -0.5252 |
| 0.500                       | -0.4994 | 0.500                    | -0.5562 | 0.500                      | -0.4713 |
| 0.550                       | -0.4262 | 0.550                    | -0.5255 | 0.550                      | -0.4671 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4211 | 0.005 | 0.4358 | 0.005 | 0.3797 |
| 0.010 | 0.1900 | 0.010 | 0.1588 | 0.010 | 0.0451 |

Flight 16 Test point 10

Sweep, deg = 20.1 Mach = 0.75 hp, ft = 25000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 305.1 P<sub>npu</sub> = 2614000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9758  | 0.000                    | 1.0108  | 0.000                      | 1.0026  |
| 0.005                       | 0.2498  | 0.005                    | 0.2996  | 0.005                      | 0.5561  |
| 0.010                       | -0.0252 | 0.010                    | 0.0380  | 0.010                      | 0.2740  |
| 0.020                       | -0.2846 | 0.020                    | -0.2336 | 0.020                      | -0.0808 |
| 0.040                       | -0.4904 | 0.040                    | -0.4218 | 0.040                      | -0.2758 |
| 0.060                       | -0.5677 | 0.060                    | -0.4866 | 0.060                      | -0.3880 |
| 0.080                       | -0.6100 | 0.080                    | -0.5298 | 0.080                      | -0.4236 |
| 0.100                       | -0.6360 | 0.100                    | -0.5500 | 0.100                      | -0.4507 |
| 0.125                       | -0.5817 | 0.125                    | -0.5691 | 0.125                      | -0.4612 |
| 0.150                       | -0.6874 | 0.150                    | -0.6146 | 0.150                      | -0.5030 |
| 0.175                       | -0.7040 | 0.175                    | -0.6689 | 0.175                      | -0.5565 |
| 0.200                       | -0.7146 | 0.200                    | -0.7095 | 0.200                      | -0.5605 |
| 0.250                       | -0.8451 | 0.250                    | -0.8036 | 0.250                      | -0.6310 |
| 0.300                       | -0.8302 | 0.300                    | -0.8271 | 0.300                      | -0.6428 |
| 0.350                       | -0.7555 | 0.350                    | -0.8176 | 0.350                      | -0.6574 |
| 0.400                       | -0.6188 | 0.400                    | -0.6852 | 0.400                      | -0.6080 |
| 0.450                       | -0.5455 | 0.450                    | -0.6081 | 0.450                      | -0.5635 |
| 0.500                       | -0.5181 | 0.500                    | -0.5899 | 0.500                      | -0.5026 |
| 0.550                       | -0.4470 | 0.550                    | -0.5598 | 0.550                      | -0.4761 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3476 | 0.005 | 0.3488 | 0.005 | 0.2698  |
| 0.010 | 0.0739 | 0.010 | 0.0042 | 0.010 | -0.1488 |

Fight 16 Test point 11

Sweep, deg = 20.1 Mach = 0.74 hp, ft = 24900. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -5.3 QBAR, lb/ft<sup>2</sup> = 303.2 Rnpu = 2604000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0307  | 0.000                    | 1.0722  | 0.000                      | 1.0653  |
| 0.005                       | 0.2182  | 0.005                    | 0.2968  | 0.005                      | 0.5763  |
| 0.010                       | -0.0696 | 0.010                    | 0.0223  | 0.010                      | 0.2818  |
| 0.020                       | -0.3391 | 0.020                    | -0.2592 | 0.020                      | -0.0866 |
| 0.040                       | -0.5546 | 0.040                    | -0.4529 | 0.040                      | -0.2890 |
| 0.060                       | -0.6190 | 0.060                    | -0.5132 | 0.060                      | -0.3988 |
| 0.080                       | -0.6899 | 0.080                    | -0.5647 | 0.080                      | -0.4389 |
| 0.100                       | -0.6968 | 0.100                    | -0.5864 | 0.100                      | -0.4682 |
| 0.125                       | -0.6295 | 0.125                    | -0.6044 | 0.125                      | -0.4803 |
| 0.150                       | -0.7279 | 0.150                    | -0.6471 | 0.150                      | -0.5163 |
| 0.175                       | -0.7488 | 0.175                    | -0.7120 | 0.175                      | -0.5714 |
| 0.200                       | -0.8421 | 0.200                    | -0.7268 | 0.200                      | -0.5776 |
| 0.250                       | -0.8806 | 0.250                    | -0.8235 | 0.250                      | -0.6511 |
| 0.300                       | -0.9560 | 0.300                    | -0.8677 | 0.300                      | -0.6652 |
| 0.350                       | -0.7389 | 0.350                    | -0.8956 | 0.350                      | -0.7014 |
| 0.400                       | -0.6018 | 0.400                    | -0.7152 | 0.400                      | -0.6369 |
| 0.450                       | -0.5406 | 0.450                    | -0.5880 | 0.450                      | -0.5802 |
| 0.500                       | -0.5146 | 0.500                    | -0.5842 | 0.500                      | -0.5068 |
| 0.550                       | -0.4405 | 0.550                    | -0.5616 | 0.550                      | -0.4770 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4469 | 0.005 | 0.4244 | 0.005 | 0.3353  |
| 0.010 | 0.1706 | 0.010 | 0.0780 | 0.010 | -0.0896 |



Fight 16 Test point 12

Sweep, deg = 32.0 Mach = 0.70 hp, ft = 24900. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 272.1 Rnpu = 2453000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7149  | 0.000                    | 0.7388  | 0.000                      | 0.7605  |
| 0.005                       | -0.2389 | 0.005                    | -0.2195 | 0.005                      | 0.0978  |
| 0.010                       | -0.4710 | 0.010                    | -0.4399 | 0.010                      | -0.1933 |
| 0.020                       | -0.6520 | 0.020                    | -0.6314 | 0.020                      | -0.4886 |
| 0.040                       | -0.7351 | 0.040                    | -0.7080 | 0.040                      | -0.5716 |
| 0.060                       | -0.7290 | 0.060                    | -0.6841 | 0.060                      | -0.5983 |
| 0.080                       | -0.7011 | 0.080                    | -0.6671 | 0.080                      | -0.5832 |
| 0.100                       | -0.6838 | 0.100                    | -0.6475 | 0.100                      | -0.5717 |
| 0.125                       | -0.5978 | 0.125                    | -0.6208 | 0.125                      | -0.5434 |
| 0.150                       | -0.6674 | 0.150                    | -0.6365 | 0.150                      | -0.5491 |
| 0.175                       | -0.6354 | 0.175                    | -0.6506 | 0.175                      | -0.5628 |
| 0.200                       | -0.6742 | 0.200                    | -0.6580 | 0.200                      | -0.5455 |
| 0.250                       | -0.6583 | 0.250                    | -0.6668 | 0.250                      | -0.5620 |
| 0.300                       | -0.6298 | 0.300                    | -0.6350 | 0.300                      | -0.5365 |
| 0.350                       | -0.5791 | 0.350                    | -0.5877 | 0.350                      | -0.5280 |
| 0.400                       | -0.5289 | 0.400                    | -0.5684 | 0.400                      | -0.4955 |
| 0.450                       | -0.4676 | 0.450                    | -0.5137 | 0.450                      | -0.4650 |
| 0.500                       | -0.4511 | 0.500                    | -0.4918 | 0.500                      | -0.4286 |
| 0.550                       | -0.3927 | 0.550                    | -0.4774 | 0.550                      | -0.4382 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4830 | 0.005 | 0.5129 | 0.005 | 0.4658 |
| 0.010 | 0.2900 | 0.010 | 0.2824 | 0.010 | 0.1918 |

Fight 16 Test point 13

Sweep, deg = 31.4 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 270.6 Rnpu = 2443000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7320  | 0.000                    | 0.7547  | 0.000                      | 0.7736  |
| 0.005                       | -0.2415 | 0.005                    | -0.2235 | 0.005                      | 0.1008  |
| 0.010                       | -0.4801 | 0.010                    | -0.4550 | 0.010                      | -0.1933 |
| 0.020                       | -0.6644 | 0.020                    | -0.6434 | 0.020                      | -0.4932 |
| 0.040                       | -0.7503 | 0.040                    | -0.7226 | 0.040                      | -0.5870 |
| 0.060                       | -0.7472 | 0.060                    | -0.6917 | 0.060                      | -0.6107 |
| 0.080                       | -0.7234 | 0.080                    | -0.6797 | 0.080                      | -0.5924 |
| 0.100                       | -0.6956 | 0.100                    | -0.6611 | 0.100                      | -0.5790 |
| 0.125                       | -0.6031 | 0.125                    | -0.6295 | 0.125                      | -0.5484 |
| 0.150                       | -0.6784 | 0.150                    | -0.6493 | 0.150                      | -0.5561 |
| 0.175                       | -0.6518 | 0.175                    | -0.6640 | 0.175                      | -0.5742 |
| 0.200                       | -0.6883 | 0.200                    | -0.6713 | 0.200                      | -0.5603 |
| 0.250                       | -0.6736 | 0.250                    | -0.6784 | 0.250                      | -0.5746 |
| 0.300                       | -0.6407 | 0.300                    | -0.6474 | 0.300                      | -0.5441 |
| 0.350                       | -0.5869 | 0.350                    | -0.6011 | 0.350                      | -0.5365 |
| 0.400                       | -0.5337 | 0.400                    | -0.5821 | 0.400                      | -0.5025 |
| 0.450                       | -0.4765 | 0.450                    | -0.5233 | 0.450                      | -0.4714 |
| 0.500                       | -0.4558 | 0.500                    | -0.5020 | 0.500                      | -0.4382 |
| 0.550                       | -0.3929 | 0.550                    | -0.4838 | 0.550                      | -0.4431 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5002 | 0.005 | 0.5272 | 0.005 | 0.4712 |
| 0.010 | 0.3023 | 0.010 | 0.2920 | 0.010 | 0.1984 |

Fight 16 Test point 14

Sweep, deg = 27.6 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 271.8 Rnpu = 2450000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8133  | 0.000                    | 0.8396  | 0.000                      | 0.8567  |
| 0.005                       | -0.1386 | 0.005                    | -0.1029 | 0.005                      | 0.2166  |
| 0.010                       | -0.3932 | 0.010                    | -0.3480 | 0.010                      | -0.0824 |
| 0.020                       | -0.6089 | 0.020                    | -0.5672 | 0.020                      | -0.4069 |
| 0.040                       | -0.7256 | 0.040                    | -0.6809 | 0.040                      | -0.5236 |
| 0.060                       | -0.7382 | 0.060                    | -0.6810 | 0.060                      | -0.5765 |
| 0.080                       | -0.7282 | 0.080                    | -0.6808 | 0.080                      | -0.5734 |
| 0.100                       | -0.7160 | 0.100                    | -0.6663 | 0.100                      | -0.5719 |
| 0.125                       | -0.6247 | 0.125                    | -0.6513 | 0.125                      | -0.5579 |
| 0.150                       | -0.7039 | 0.150                    | -0.6610 | 0.150                      | -0.5568 |
| 0.175                       | -0.6725 | 0.175                    | -0.6835 | 0.175                      | -0.5839 |
| 0.200                       | -0.7148 | 0.200                    | -0.7032 | 0.200                      | -0.5653 |
| 0.250                       | -0.7045 | 0.250                    | -0.7126 | 0.250                      | -0.5947 |
| 0.300                       | -0.6787 | 0.300                    | -0.6808 | 0.300                      | -0.5682 |
| 0.350                       | -0.6201 | 0.350                    | -0.6303 | 0.350                      | -0.5681 |
| 0.400                       | -0.5641 | 0.400                    | -0.6127 | 0.400                      | -0.5300 |
| 0.450                       | -0.5037 | 0.450                    | -0.5483 | 0.450                      | -0.4928 |
| 0.500                       | -0.4766 | 0.500                    | -0.5307 | 0.500                      | -0.4534 |
| 0.550                       | -0.4132 | 0.550                    | -0.5136 | 0.550                      | -0.4561 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4940 | 0.005 | 0.5085 | 0.005 | 0.4432 |
| 0.010 | 0.2761 | 0.010 | 0.2471 | 0.010 | 0.1361 |

Fight 16 Test point 15

Sweep, deg = 20.1 Mach = 0.71 hp, ft = 25000. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -3.3 QBAR, lb/ft<sup>2</sup> = 273.1 Rnpu = 2456000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9996  | 0.000                    | 1.0341  | 0.000                      | 1.0309  |
| 0.005                       | 0.1587  | 0.005                    | 0.2308  | 0.005                      | 0.5325  |
| 0.010                       | -0.1256 | 0.010                    | -0.0441 | 0.010                      | 0.2330  |
| 0.020                       | -0.3874 | 0.020                    | -0.3166 | 0.020                      | -0.1290 |
| 0.040                       | -0.5799 | 0.040                    | -0.4861 | 0.040                      | -0.3132 |
| 0.060                       | -0.6359 | 0.060                    | -0.5280 | 0.060                      | -0.4100 |
| 0.080                       | -0.6650 | 0.080                    | -0.5670 | 0.080                      | -0.4357 |
| 0.100                       | -0.6760 | 0.100                    | -0.5822 | 0.100                      | -0.4593 |
| 0.125                       | -0.6081 | 0.125                    | -0.5924 | 0.125                      | -0.4632 |
| 0.150                       | -0.7044 | 0.150                    | -0.6289 | 0.150                      | -0.4942 |
| 0.175                       | -0.6910 | 0.175                    | -0.6671 | 0.175                      | -0.5372 |
| 0.200                       | -0.7572 | 0.200                    | -0.6960 | 0.200                      | -0.5304 |
| 0.250                       | -0.7528 | 0.250                    | -0.7387 | 0.250                      | -0.5828 |
| 0.300                       | -0.7258 | 0.300                    | -0.7227 | 0.300                      | -0.5809 |
| 0.350                       | -0.6641 | 0.350                    | -0.6794 | 0.350                      | -0.5887 |
| 0.400                       | -0.5940 | 0.400                    | -0.6656 | 0.400                      | -0.5639 |
| 0.450                       | -0.5248 | 0.450                    | -0.5891 | 0.450                      | -0.5361 |
| 0.500                       | -0.5060 | 0.500                    | -0.5691 | 0.500                      | -0.4830 |
| 0.550                       | -0.4339 | 0.550                    | -0.5423 | 0.550                      | -0.4727 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4336 | 0.005 | 0.4125 | 0.005 | 0.3152  |
| 0.010 | 0.1560 | 0.010 | 0.0771 | 0.010 | -0.1004 |

Fight 16 Test point 16

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 333.2 Rnpu = 2905000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9586  | 0.000                    | 0.9936  | 0.000                      | 0.9883  |
| 0.005                       | 0.1426  | 0.005                    | 0.2065  | 0.005                      | 0.4988  |
| 0.010                       | -0.1310 | 0.010                    | -0.0582 | 0.010                      | 0.2044  |
| 0.020                       | -0.3888 | 0.020                    | -0.3222 | 0.020                      | -0.1453 |
| 0.040                       | -0.5642 | 0.040                    | -0.4876 | 0.040                      | -0.3220 |
| 0.060                       | -0.6125 | 0.060                    | -0.5309 | 0.060                      | -0.4095 |
| 0.080                       | -0.6404 | 0.080                    | -0.5618 | 0.080                      | -0.4408 |
| 0.100                       | -0.6517 | 0.100                    | -0.5720 | 0.100                      | -0.4602 |
| 0.125                       | -0.5872 | 0.125                    | -0.5810 | 0.125                      | -0.4551 |
| 0.150                       | -0.6749 | 0.150                    | -0.6119 | 0.150                      | -0.4853 |
| 0.175                       | -0.6612 | 0.175                    | -0.6459 | 0.175                      | -0.5222 |
| 0.200                       | -0.7138 | 0.200                    | -0.6735 | 0.200                      | -0.5217 |
| 0.250                       | -0.7152 | 0.250                    | -0.7038 | 0.250                      | -0.5660 |
| 0.300                       | -0.6974 | 0.300                    | -0.6895 | 0.300                      | -0.5679 |
| 0.350                       | -0.6421 | 0.350                    | -0.6528 | 0.350                      | -0.5772 |
| 0.400                       | -0.5806 | 0.400                    | -0.6368 | 0.400                      | -0.5491 |
| 0.450                       | -0.5180 | 0.450                    | -0.5742 | 0.450                      | -0.5181 |
| 0.500                       | -0.4980 | 0.500                    | -0.5531 | 0.500                      | -0.4756 |
| 0.550                       | -0.4369 | 0.550                    | -0.5381 | 0.550                      | -0.4771 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3900 | 0.005 | 0.3765 | 0.005 | 0.2808  |
| 0.010 | 0.1222 | 0.010 | 0.0499 | 0.010 | -0.1198 |

Fight 16 Test point 17

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 330.7 Rnpu = 2893000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9398  | 0.000                    | 0.9748  | 0.000                      | 0.9835  |
| 0.005                       | -0.0421 | 0.005                    | 0.0267  | 0.005                      | 0.3579  |
| 0.010                       | -0.3267 | 0.010                    | -0.2508 | 0.010                      | 0.0396  |
| 0.020                       | -0.5826 | 0.020                    | -0.5111 | 0.020                      | -0.3255 |
| 0.040                       | -0.7390 | 0.040                    | -0.6589 | 0.040                      | -0.4792 |
| 0.060                       | -0.7681 | 0.060                    | -0.6806 | 0.060                      | -0.5545 |
| 0.080                       | -0.7782 | 0.080                    | -0.6918 | 0.080                      | -0.5677 |
| 0.100                       | -0.7750 | 0.100                    | -0.6929 | 0.100                      | -0.5737 |
| 0.125                       | -0.6789 | 0.125                    | -0.6852 | 0.125                      | -0.5530 |
| 0.150                       | -0.7715 | 0.150                    | -0.7096 | 0.150                      | -0.5683 |
| 0.175                       | -0.7427 | 0.175                    | -0.7408 | 0.175                      | -0.6031 |
| 0.200                       | -0.7984 | 0.200                    | -0.7662 | 0.200                      | -0.5966 |
| 0.250                       | -0.7799 | 0.250                    | -0.7813 | 0.250                      | -0.6376 |
| 0.300                       | -0.7531 | 0.300                    | -0.7523 | 0.300                      | -0.6209 |
| 0.350                       | -0.6791 | 0.350                    | -0.7002 | 0.350                      | -0.6181 |
| 0.400                       | -0.6126 | 0.400                    | -0.6707 | 0.400                      | -0.5817 |
| 0.450                       | -0.5450 | 0.450                    | -0.6051 | 0.450                      | -0.5442 |
| 0.500                       | -0.5177 | 0.500                    | -0.5767 | 0.500                      | -0.4992 |
| 0.550                       | -0.4477 | 0.550                    | -0.5540 | 0.550                      | -0.4924 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5297 | 0.005 | 0.5185 | 0.005 | 0.4350 |
| 0.010 | 0.2808 | 0.010 | 0.2193 | 0.010 | 0.0689 |

Fight 16 Test point 18

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 335.6 Rnpu = 2917000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8803  | 0.000                    | 0.9154  | 0.000                      | 0.9112  |
| 0.005                       | 0.1424  | 0.005                    | 0.1875  | 0.005                      | 0.4613  |
| 0.010                       | -0.1141 | 0.010                    | -0.0589 | 0.010                      | 0.1860  |
| 0.020                       | -0.3463 | 0.020                    | -0.2973 | 0.020                      | -0.1392 |
| 0.040                       | -0.5071 | 0.040                    | -0.4457 | 0.040                      | -0.2983 |
| 0.060                       | -0.5507 | 0.060                    | -0.4815 | 0.060                      | -0.3797 |
| 0.080                       | -0.5724 | 0.080                    | -0.5090 | 0.080                      | -0.4022 |
| 0.100                       | -0.5812 | 0.100                    | -0.5189 | 0.100                      | -0.4218 |
| 0.125                       | -0.5234 | 0.125                    | -0.5267 | 0.125                      | -0.4186 |
| 0.150                       | -0.5977 | 0.150                    | -0.5477 | 0.150                      | -0.4444 |
| 0.175                       | -0.5884 | 0.175                    | -0.5732 | 0.175                      | -0.4739 |
| 0.200                       | -0.6351 | 0.200                    | -0.5944 | 0.200                      | -0.4756 |
| 0.250                       | -0.6388 | 0.250                    | -0.6292 | 0.250                      | -0.5142 |
| 0.300                       | -0.6253 | 0.300                    | -0.6196 | 0.300                      | -0.5107 |
| 0.350                       | -0.5823 | 0.350                    | -0.5896 | 0.350                      | -0.5184 |
| 0.400                       | -0.5338 | 0.400                    | -0.5753 | 0.400                      | -0.4964 |
| 0.450                       | -0.4776 | 0.450                    | -0.5263 | 0.450                      | -0.4723 |
| 0.500                       | -0.4611 | 0.500                    | -0.5083 | 0.500                      | -0.4393 |
| 0.550                       | -0.4046 | 0.550                    | -0.5004 | 0.550                      | -0.4504 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3273 | 0.005 | 0.3260 | 0.005 | 0.2311  |
| 0.010 | 0.0774 | 0.010 | 0.0170 | 0.010 | -0.1417 |

Fight 16 Test point 19

Sweep, deg = 25.3 Mach = 0.71 hp, ft = 19900. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 341.4 Rnpu = 2948000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8702  | 0.000                    | 0.8999  | 0.000                      | 0.9037  |
| 0.005                       | -0.0114 | 0.005                    | 0.0264  | 0.005                      | 0.3316  |
| 0.010                       | -0.2723 | 0.010                    | -0.2283 | 0.010                      | 0.0355  |
| 0.020                       | -0.5069 | 0.020                    | -0.4663 | 0.020                      | -0.3009 |
| 0.040                       | -0.6488 | 0.040                    | -0.5941 | 0.040                      | -0.4394 |
| 0.060                       | -0.6811 | 0.060                    | -0.6132 | 0.060                      | -0.5060 |
| 0.080                       | -0.6923 | 0.080                    | -0.6317 | 0.080                      | -0.5182 |
| 0.100                       | -0.6904 | 0.100                    | -0.6288 | 0.100                      | -0.5261 |
| 0.125                       | -0.6052 | 0.125                    | -0.6215 | 0.125                      | -0.5184 |
| 0.150                       | -0.6894 | 0.150                    | -0.6421 | 0.150                      | -0.5315 |
| 0.175                       | -0.6643 | 0.175                    | -0.6639 | 0.175                      | -0.5588 |
| 0.200                       | -0.7135 | 0.200                    | -0.6803 | 0.200                      | -0.5474 |
| 0.250                       | -0.7111 | 0.250                    | -0.7075 | 0.250                      | -0.5811 |
| 0.300                       | -0.6888 | 0.300                    | -0.6848 | 0.300                      | -0.5674 |
| 0.350                       | -0.6286 | 0.350                    | -0.6433 | 0.350                      | -0.5681 |
| 0.400                       | -0.5681 | 0.400                    | -0.6203 | 0.400                      | -0.5343 |
| 0.450                       | -0.5085 | 0.450                    | -0.5597 | 0.450                      | -0.5028 |
| 0.500                       | -0.4894 | 0.500                    | -0.5342 | 0.500                      | -0.4639 |
| 0.550                       | -0.4235 | 0.550                    | -0.5215 | 0.550                      | -0.4674 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4465 | 0.005 | 0.4540 | 0.005 | 0.3743 |
| 0.010 | 0.2114 | 0.010 | 0.1716 | 0.010 | 0.0340 |



Fight 16 Test point 20

Sweep, deg = 30.0 Mach = 0.71 hp, ft = 20000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 339.2 Rnpu = 2934000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7887  | 0.000                    | 0.8194  | 0.000                      | 0.8228  |
| 0.005                       | 0.0061  | 0.005                    | 0.0430  | 0.005                      | 0.3194  |
| 0.010                       | -0.2276 | 0.010                    | -0.1843 | 0.010                      | 0.0572  |
| 0.020                       | -0.4332 | 0.020                    | -0.3971 | 0.020                      | -0.2352 |
| 0.040                       | -0.5578 | 0.040                    | -0.5085 | 0.040                      | -0.3656 |
| 0.060                       | -0.5669 | 0.060                    | -0.5248 | 0.060                      | -0.4247 |
| 0.080                       | -0.5817 | 0.080                    | -0.5237 | 0.080                      | -0.4365 |
| 0.100                       | -0.5835 | 0.100                    | -0.5295 | 0.100                      | -0.4475 |
| 0.125                       | -0.5254 | 0.125                    | -0.5319 | 0.125                      | -0.4472 |
| 0.150                       | -0.5898 | 0.150                    | -0.5541 | 0.150                      | -0.4640 |
| 0.175                       | -0.5768 | 0.175                    | -0.5705 | 0.175                      | -0.4852 |
| 0.200                       | -0.6124 | 0.200                    | -0.5906 | 0.200                      | -0.4785 |
| 0.250                       | -0.6140 | 0.250                    | -0.6084 | 0.250                      | -0.5072 |
| 0.300                       | -0.5970 | 0.300                    | -0.5922 | 0.300                      | -0.4961 |
| 0.350                       | -0.5514 | 0.350                    | -0.5573 | 0.350                      | -0.4957 |
| 0.400                       | -0.5056 | 0.400                    | -0.5436 | 0.400                      | -0.4725 |
| 0.450                       | -0.4534 | 0.450                    | -0.4946 | 0.450                      | -0.4501 |
| 0.500                       | -0.4371 | 0.500                    | -0.4796 | 0.500                      | -0.4183 |
| 0.550                       | -0.3865 | 0.550                    | -0.4711 | 0.550                      | -0.4331 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3658 | 0.005 | 0.3719 | 0.005 | 0.2996  |
| 0.010 | 0.1404 | 0.010 | 0.1060 | 0.010 | -0.0203 |

Flight 16 Test point 21

Sweep, deg = 30.1 Mach = 0.70 hp, ft = 19900. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 333.9 Rnpu = 2907000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7555  | 0.000                    | 0.7777  | 0.000                      | 0.7954  |
| 0.005                       | -0.2142 | 0.005                    | -0.1822 | 0.005                      | 0.1367  |
| 0.010                       | -0.4540 | 0.010                    | -0.4237 | 0.010                      | -0.1592 |
| 0.020                       | -0.6481 | 0.020                    | -0.6164 | 0.020                      | -0.4678 |
| 0.040                       | -0.7396 | 0.040                    | -0.6984 | 0.040                      | -0.5604 |
| 0.060                       | -0.7368 | 0.060                    | -0.6844 | 0.060                      | -0.5875 |
| 0.080                       | -0.7177 | 0.080                    | -0.6784 | 0.080                      | -0.5782 |
| 0.100                       | -0.7026 | 0.100                    | -0.6649 | 0.100                      | -0.5723 |
| 0.125                       | -0.6128 | 0.125                    | -0.6328 | 0.125                      | -0.5423 |
| 0.150                       | -0.6812 | 0.150                    | -0.6473 | 0.150                      | -0.5514 |
| 0.175                       | -0.6518 | 0.175                    | -0.6544 | 0.175                      | -0.5670 |
| 0.200                       | -0.6889 | 0.200                    | -0.6717 | 0.200                      | -0.5503 |
| 0.250                       | -0.6779 | 0.250                    | -0.6801 | 0.250                      | -0.5652 |
| 0.300                       | -0.6509 | 0.300                    | -0.6516 | 0.300                      | -0.5439 |
| 0.350                       | -0.5949 | 0.350                    | -0.6044 | 0.350                      | -0.5412 |
| 0.400                       | -0.5400 | 0.400                    | -0.5816 | 0.400                      | -0.5103 |
| 0.450                       | -0.4778 | 0.450                    | -0.5254 | 0.450                      | -0.4753 |
| 0.500                       | -0.4581 | 0.500                    | -0.4996 | 0.500                      | -0.4395 |
| 0.550                       | -0.4011 | 0.550                    | -0.4878 | 0.550                      | -0.4441 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4987 | 0.005 | 0.5158 | 0.005 | 0.4587 |
| 0.010 | 0.2969 | 0.010 | 0.2788 | 0.010 | 0.1765 |

Fight 16 Test point 22

Sweep, deg = 34.9 Mach = 0.71 hp, ft = 20000. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 338.8 Rnpu = 2930000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.6943  | 0.000                    | 0.7192  | 0.000                      | 0.7256  |
| 0.005                       | -0.0656 | 0.005                    | -0.0450 | 0.005                      | 0.2224  |
| 0.010                       | -0.2767 | 0.010                    | -0.2459 | 0.010                      | -0.0233 |
| 0.020                       | -0.4525 | 0.020                    | -0.4269 | 0.020                      | -0.2914 |
| 0.040                       | -0.5388 | 0.040                    | -0.4917 | 0.040                      | -0.3909 |
| 0.060                       | -0.5474 | 0.060                    | -0.5052 | 0.060                      | -0.4200 |
| 0.080                       | -0.5508 | 0.080                    | -0.5159 | 0.080                      | -0.4291 |
| 0.100                       | -0.5484 | 0.100                    | -0.5115 | 0.100                      | -0.4334 |
| 0.125                       | -0.4866 | 0.125                    | -0.5015 | 0.125                      | -0.4281 |
| 0.150                       | -0.5451 | 0.150                    | -0.5158 | 0.150                      | -0.4395 |
| 0.175                       | -0.5292 | 0.175                    | -0.5292 | 0.175                      | -0.4538 |
| 0.200                       | -0.5570 | 0.200                    | -0.5408 | 0.200                      | -0.4446 |
| 0.250                       | -0.5557 | 0.250                    | -0.5520 | 0.250                      | -0.4656 |
| 0.300                       | -0.5412 | 0.300                    | -0.5351 | 0.300                      | -0.4536 |
| 0.350                       | -0.5009 | 0.350                    | -0.5012 | 0.350                      | -0.4550 |
| 0.400                       | -0.4606 | 0.400                    | -0.4891 | 0.400                      | -0.4300 |
| 0.450                       | -0.4136 | 0.450                    | -0.4486 | 0.450                      | -0.4080 |
| 0.500                       | -0.4019 | 0.500                    | -0.4356 | 0.500                      | -0.3845 |
| 0.550                       | -0.3537 | 0.550                    | -0.4271 | 0.550                      | -0.4011 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3511 | 0.005 | 0.3657 | 0.005 | 0.3069 |
| 0.010 | 0.1566 | 0.010 | 0.1376 | 0.010 | 0.0309 |

Fight 16 Test point 23

Sweep, deg = 34.9 Mach = 0.71 hp, ft = 19900. Angle of attack, deg = 2.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 341.5 R<sub>pu</sub> = 2948000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.6529  | 0.000                    | 0.6684  | 0.000                      | 0.6917  |
| 0.005                       | -0.2737 | 0.005                    | -0.2596 | 0.005                      | 0.0435  |
| 0.010                       | -0.4903 | 0.010                    | -0.4609 | 0.010                      | -0.2240 |
| 0.020                       | -0.6509 | 0.020                    | -0.6418 | 0.020                      | -0.4925 |
| 0.040                       | -0.7100 | 0.040                    | -0.6794 | 0.040                      | -0.5568 |
| 0.060                       | -0.6956 | 0.060                    | -0.6601 | 0.060                      | -0.5738 |
| 0.080                       | -0.6764 | 0.080                    | -0.6443 | 0.080                      | -0.5597 |
| 0.100                       | -0.6597 | 0.100                    | -0.6256 | 0.100                      | -0.5488 |
| 0.125                       | -0.5722 | 0.125                    | -0.6027 | 0.125                      | -0.5284 |
| 0.150                       | -0.6306 | 0.150                    | -0.6110 | 0.150                      | -0.5287 |
| 0.175                       | -0.6038 | 0.175                    | -0.6141 | 0.175                      | -0.5355 |
| 0.200                       | -0.6349 | 0.200                    | -0.6216 | 0.200                      | -0.5186 |
| 0.250                       | -0.6186 | 0.250                    | -0.6233 | 0.250                      | -0.5295 |
| 0.300                       | -0.5958 | 0.300                    | -0.5942 | 0.300                      | -0.5061 |
| 0.350                       | -0.5456 | 0.350                    | -0.5512 | 0.350                      | -0.4968 |
| 0.400                       | -0.4999 | 0.400                    | -0.5289 | 0.400                      | -0.4656 |
| 0.450                       | -0.4463 | 0.450                    | -0.4803 | 0.450                      | -0.4356 |
| 0.500                       | -0.4292 | 0.500                    | -0.4591 | 0.500                      | -0.4064 |
| 0.550                       | -0.3708 | 0.550                    | -0.4493 | 0.550                      | -0.4186 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4732 | 0.005 | 0.4938 | 0.005 | 0.4487 |
| 0.010 | 0.2973 | 0.010 | 0.2889 | 0.010 | 0.2130 |

Flight 16 Test point 24

Sweep, deg = 34.9 Mach = 0.63 hp, ft = 19700. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 325.2 Rrho = 2875000.

Upper surface

| BL 200.P<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7051  | 0.000                    | 0.7345  | 0.000                      | 0.7365  |
| 0.005                       | 0.0540  | 0.005                    | 0.0832  | 0.005                      | 0.3285  |
| 0.010                       | -0.1529 | 0.010                    | -0.1120 | 0.010                      | 0.0996  |
| 0.020                       | -0.3266 | 0.020                    | -0.3024 | 0.020                      | -0.1537 |
| 0.040                       | -0.4265 | 0.040                    | -0.3777 | 0.040                      | -0.2756 |
| 0.060                       | -0.4528 | 0.060                    | -0.4067 | 0.060                      | -0.3293 |
| 0.080                       | -0.4672 | 0.080                    | -0.4215 | 0.080                      | -0.3432 |
| 0.100                       | -0.4660 | 0.100                    | -0.4241 | 0.100                      | -0.3532 |
| 0.125                       | -0.4279 | 0.125                    | -0.4231 | 0.125                      | -0.3530 |
| 0.150                       | -0.4761 | 0.150                    | -0.4472 | 0.150                      | -0.3695 |
| 0.175                       | -0.4693 | 0.175                    | -0.4536 | 0.175                      | -0.3867 |
| 0.200                       | -0.4981 | 0.200                    | -0.4719 | 0.200                      | -0.3855 |
| 0.250                       | -0.5005 | 0.250                    | -0.4924 | 0.250                      | -0.4121 |
| 0.300                       | -0.4888 | 0.300                    | -0.4807 | 0.300                      | -0.4041 |
| 0.350                       | -0.4565 | 0.350                    | -0.4556 | 0.350                      | -0.4063 |
| 0.400                       | -0.4237 | 0.400                    | -0.4498 | 0.400                      | -0.3925 |
| 0.450                       | -0.3824 | 0.450                    | -0.4132 | 0.450                      | -0.3767 |
| 0.500                       | -0.3739 | 0.500                    | -0.4049 | 0.500                      | -0.3583 |
| 0.550                       | -0.3315 | 0.550                    | -0.4018 | 0.550                      | -0.3813 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.2547 | 0.005 | 0.2680 | 0.005 | 0.1923  |
| 0.010 | 0.0519 | 0.010 | 0.0150 | 0.010 | -0.1004 |

Flight 16 Test point 25

Sweep, deg = 34.9 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 384.9 R<sub>pu</sub> = 3142000.

Upper surface

| BL 200.8<br>Inboard station |                | BL 260<br>Middle station |                | BL 320<br>Outboard station |                |
|-----------------------------|----------------|--------------------------|----------------|----------------------------|----------------|
| x/c                         | C <sub>p</sub> | x/c                      | C <sub>p</sub> | x/c                        | C <sub>p</sub> |
| 0.000                       | 0.7158         | 0.000                    | 0.7397         | 0.000                      | 0.7401         |
| 0.005                       | 0.0575         | 0.005                    | 0.0704         | 0.005                      | 0.3069         |
| 0.010                       | -0.1568        | 0.010                    | -0.1264        | 0.010                      | 0.0746         |
| 0.020                       | -0.3480        | 0.020                    | -0.3353        | 0.020                      | -0.1973        |
| 0.040                       | -0.4742        | 0.040                    | -0.4313        | 0.040                      | -0.3230        |
| 0.060                       | -0.5064        | 0.060                    | -0.4615        | 0.060                      | -0.3849        |
| 0.080                       | -0.5201        | 0.080                    | -0.4826        | 0.080                      | -0.4011        |
| 0.100                       | -0.5260        | 0.100                    | -0.4902        | 0.100                      | -0.4123        |
| 0.125                       | -0.4770        | 0.125                    | -0.4584        | 0.125                      | -0.4173        |
| 0.150                       | -0.5353        | 0.150                    | -0.5091        | 0.150                      | -0.4339        |
| 0.175                       | -0.5292        | 0.175                    | -0.5243        | 0.175                      | -0.4513        |
| 0.200                       | -0.5680        | 0.200                    | -0.5476        | 0.200                      | -0.4479        |
| 0.250                       | -0.5705        | 0.250                    | -0.5729        | 0.250                      | -0.4784        |
| 0.300                       | -0.5635        | 0.300                    | -0.5586        | 0.300                      | -0.4701        |
| 0.350                       | -0.5252        | 0.350                    | -0.5252        | 0.350                      | -0.4695        |
| 0.400                       | -0.4824        | 0.400                    | -0.5097        | 0.400                      | -0.4461        |
| 0.450                       | -0.4347        | 0.450                    | -0.4665        | 0.450                      | -0.4197        |
| 0.500                       | -0.4141        | 0.500                    | -0.4482        | 0.500                      | -0.3915        |
| 0.550                       | -0.3671        | 0.550                    | -0.4426        | 0.550                      | -0.4093        |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.2885 | 0.005 | 0.3026 | 0.005 | 0.2383  |
| 0.010 | 0.0856 | 0.010 | 0.0571 | 0.010 | -0.0487 |

Fight 16 Test point 26

Sweep, deg = 34.9 Mach = 0.75 hp, ft = 19500. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 388.4 Rnpu = 3186000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7139  | 0.000                    | 0.7437  | 0.000                      | 0.7360  |
| 0.005                       | 0.1992  | 0.005                    | 0.2212  | 0.005                      | 0.4281  |
| 0.010                       | -0.0093 | 0.010                    | 0.0317  | 0.010                      | 0.2198  |
| 0.020                       | -0.2027 | 0.020                    | -0.1803 | 0.020                      | -0.0406 |
| 0.040                       | -0.3438 | 0.040                    | -0.2963 | 0.040                      | -0.1847 |
| 0.060                       | -0.3901 | 0.060                    | -0.3461 | 0.060                      | -0.2644 |
| 0.080                       | -0.4195 | 0.080                    | -0.3746 | 0.080                      | -0.2937 |
| 0.100                       | -0.4329 | 0.100                    | -0.3877 | 0.100                      | -0.3133 |
| 0.125                       | -0.4076 | 0.125                    | -0.3964 | 0.125                      | -0.3260 |
| 0.150                       | -0.4616 | 0.150                    | -0.4224 | 0.150                      | -0.3502 |
| 0.175                       | -0.4624 | 0.175                    | -0.4491 | 0.175                      | -0.3711 |
| 0.200                       | -0.4974 | 0.200                    | -0.4729 | 0.200                      | -0.3729 |
| 0.250                       | -0.5096 | 0.250                    | -0.5001 | 0.250                      | -0.4144 |
| 0.300                       | -0.5078 | 0.300                    | -0.4959 | 0.300                      | -0.4148 |
| 0.350                       | -0.4778 | 0.350                    | -0.4688 | 0.350                      | -0.4222 |
| 0.400                       | -0.4448 | 0.400                    | -0.4631 | 0.400                      | -0.4067 |
| 0.450                       | -0.4010 | 0.450                    | -0.4289 | 0.450                      | -0.3871 |
| 0.500                       | -0.3892 | 0.500                    | -0.4214 | 0.500                      | -0.3667 |
| 0.550                       | -0.3464 | 0.550                    | -0.4213 | 0.550                      | -0.3893 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.1587  | 0.005 | 0.1671  | 0.005 | 0.0854  |
| 0.010 | -0.0568 | 0.010 | -0.1039 | 0.010 | -0.2354 |

Fight 16 Test point 27

Sweep, deg = 34.9 Mach = 0.75 hp, ft = 20100. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -0.1  $\bar{Q}$ BAR, lb/ft<sup>2</sup> = 384.3 Rnpu = 3145000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.6930  | 0.000                    | 0.7043  | 0.000                      | 0.7177  |
| 0.005                       | -0.1267 | 0.005                    | -0.1376 | 0.005                      | 0.1329  |
| 0.010                       | -0.3514 | 0.010                    | -0.3473 | 0.010                      | -0.1284 |
| 0.020                       | -0.5374 | 0.020                    | -0.5508 | 0.020                      | -0.4108 |
| 0.040                       | -0.6377 | 0.040                    | -0.6252 | 0.040                      | -0.5047 |
| 0.060                       | -0.6949 | 0.060                    | -0.6286 | 0.060                      | -0.5552 |
| 0.080                       | -0.6435 | 0.080                    | -0.6312 | 0.080                      | -0.5486 |
| 0.100                       | -0.6436 | 0.100                    | -0.6181 | 0.100                      | -0.5445 |
| 0.125                       | -0.5692 | 0.125                    | -0.6001 | 0.125                      | -0.5289 |
| 0.150                       | -0.6360 | 0.150                    | -0.6158 | 0.150                      | -0.5351 |
| 0.175                       | -0.6190 | 0.175                    | -0.6302 | 0.175                      | -0.5490 |
| 0.200                       | -0.6563 | 0.200                    | -0.6446 | 0.200                      | -0.5383 |
| 0.250                       | -0.6455 | 0.250                    | -0.6527 | 0.250                      | -0.5551 |
| 0.300                       | -0.6273 | 0.300                    | -0.6237 | 0.300                      | -0.5333 |
| 0.350                       | -0.5757 | 0.350                    | -0.5740 | 0.350                      | -0.5207 |
| 0.400                       | -0.5222 | 0.400                    | -0.5539 | 0.400                      | -0.4821 |
| 0.450                       | -0.4639 | 0.450                    | -0.5012 | 0.450                      | -0.4482 |
| 0.500                       | -0.4432 | 0.500                    | -0.4754 | 0.500                      | -0.4126 |
| 0.550                       | -0.3855 | 0.550                    | -0.4615 | 0.550                      | -0.4246 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4145 | 0.005 | 0.4445 | 0.005 | 0.3995 |
| 0.010 | 0.2286 | 0.010 | 0.2294 | 0.010 | 0.1515 |



Fight 16 Test point 28

Sweep, deg = 30.4 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 379.0 Rnpu = 3114000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8012  | 0.000                    | 0.8289  | 0.000                      | 0.8280  |
| 0.005                       | 0.1385  | 0.005                    | 0.1673  | 0.005                      | 0.4067  |
| 0.010                       | -0.0960 | 0.010                    | -0.0583 | 0.010                      | 0.1571  |
| 0.020                       | -0.3126 | 0.020                    | -0.2858 | 0.020                      | -0.1482 |
| 0.040                       | -0.4546 | 0.040                    | -0.4193 | 0.040                      | -0.2999 |
| 0.060                       | -0.5051 | 0.060                    | -0.4448 | 0.060                      | -0.3776 |
| 0.080                       | -0.5338 | 0.080                    | -0.4841 | 0.080                      | -0.3952 |
| 0.100                       | -0.5459 | 0.100                    | -0.4963 | 0.100                      | -0.4038 |
| 0.125                       | -0.5010 | 0.125                    | -0.5055 | 0.125                      | -0.4167 |
| 0.150                       | -0.5685 | 0.150                    | -0.5333 | 0.150                      | -0.4453 |
| 0.175                       | -0.5661 | 0.175                    | -0.5599 | 0.175                      | -0.4749 |
| 0.200                       | -0.6149 | 0.200                    | -0.5864 | 0.200                      | -0.4738 |
| 0.250                       | -0.6227 | 0.250                    | -0.6192 | 0.250                      | -0.5108 |
| 0.300                       | -0.6176 | 0.300                    | -0.6126 | 0.300                      | -0.5085 |
| 0.350                       | -0.5702 | 0.350                    | -0.5768 | 0.350                      | -0.5129 |
| 0.400                       | -0.5255 | 0.400                    | -0.5589 | 0.400                      | -0.4857 |
| 0.450                       | -0.4692 | 0.450                    | -0.5106 | 0.450                      | -0.4580 |
| 0.500                       | -0.4487 | 0.500                    | -0.4906 | 0.500                      | -0.4233 |
| 0.550                       | -0.3950 | 0.550                    | -0.4786 | 0.550                      | -0.4319 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.2816 | 0.005 | 0.2903 | 0.005 | 0.2172  |
| 0.010 | 0.0493 | 0.010 | 0.0080 | 0.010 | -0.1270 |

Fight 16 Test point 29

Sweep, deg = 30.4 Mach = 0.77 hp, ft = 20100. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 396.6 Rnpu = 3199000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7942  | 0.000                    | 0.8172  | 0.000                      | 0.8222  |
| 0.005                       | -0.0032 | 0.005                    | 0.0177  | 0.005                      | 0.2778  |
| 0.010                       | -0.2432 | 0.010                    | -0.2191 | 0.010                      | 0.0030  |
| 0.020                       | -0.4641 | 0.020                    | -0.4446 | 0.020                      | -0.3160 |
| 0.040                       | -0.5928 | 0.040                    | -0.5790 | 0.040                      | -0.4558 |
| 0.060                       | -0.6474 | 0.060                    | -0.5861 | 0.060                      | -0.5309 |
| 0.080                       | -0.7202 | 0.080                    | -0.6177 | 0.080                      | -0.5389 |
| 0.100                       | -0.6606 | 0.100                    | -0.6251 | 0.100                      | -0.5351 |
| 0.125                       | -0.6048 | 0.125                    | -0.6374 | 0.125                      | -0.5358 |
| 0.150                       | -0.6853 | 0.150                    | -0.6509 | 0.150                      | -0.5654 |
| 0.175                       | -0.6665 | 0.175                    | -0.6815 | 0.175                      | -0.5956 |
| 0.200                       | -0.6995 | 0.200                    | -0.6994 | 0.200                      | -0.5979 |
| 0.250                       | -0.7209 | 0.250                    | -0.7824 | 0.250                      | -0.6240 |
| 0.300                       | -0.7114 | 0.300                    | -0.7792 | 0.300                      | -0.6145 |
| 0.350                       | -0.6746 | 0.350                    | -0.6196 | 0.350                      | -0.5947 |
| 0.400                       | -0.5820 | 0.400                    | -0.6255 | 0.400                      | 0.5429  |
| 0.450                       | -0.5129 | 0.450                    | -0.5613 | 0.450                      | -0.4990 |
| 0.500                       | -0.4826 | 0.500                    | -0.5251 | 0.500                      | -0.4497 |
| 0.550                       | -0.4202 | 0.550                    | -0.5041 | 0.550                      | -0.4499 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4059 | 0.005 | 0.4189 | 0.005 | 0.3665 |
| 0.010 | 0.1894 | 0.010 | 0.1638 | 0.010 | 0.0582 |

Fight 16 Test point 30

Sweep, deg = 25.3 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 381.5 R<sub>pu</sub> = 3131000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8942  | 0.000                    | 0.9231  | 0.000                      | 0.9163  |
| 0.005                       | 0.2606  | 0.005                    | 0.3055  | 0.005                      | 0.5402  |
| 0.010                       | 0.0070  | 0.010                    | 0.0593  | 0.010                      | 0.2814  |
| 0.020                       | -0.2321 | 0.020                    | -0.1915 | 0.020                      | -0.0442 |
| 0.040                       | -0.4224 | 0.040                    | -0.3624 | 0.040                      | -0.2287 |
| 0.060                       | -0.4891 | 0.060                    | -0.4207 | 0.060                      | -0.3290 |
| 0.080                       | -0.5183 | 0.080                    | -0.4607 | 0.080                      | -0.3679 |
| 0.100                       | -0.5384 | 0.100                    | -0.4811 | 0.100                      | -0.3935 |
| 0.125                       | -0.5094 | 0.125                    | -0.4917 | 0.125                      | -0.4043 |
| 0.150                       | -0.5924 | 0.150                    | -0.5389 | 0.150                      | -0.4421 |
| 0.175                       | -0.5938 | 0.175                    | -0.5831 | 0.175                      | -0.4863 |
| 0.200                       | -0.6565 | 0.200                    | -0.6284 | 0.200                      | -0.4883 |
| 0.250                       | -0.6736 | 0.250                    | -0.6770 | 0.250                      | -0.5446 |
| 0.300                       | -0.6827 | 0.300                    | -0.6803 | 0.300                      | -0.5518 |
| 0.350                       | -0.6277 | 0.350                    | -0.6421 | 0.350                      | -0.5613 |
| 0.400                       | -0.5716 | 0.400                    | -0.6170 | 0.400                      | -0.5312 |
| 0.450                       | -0.5069 | 0.450                    | -0.5595 | 0.450                      | -0.4988 |
| 0.500                       | -0.4863 | 0.500                    | -0.5343 | 0.500                      | -0.4581 |
| 0.550                       | -0.4213 | 0.550                    | -0.5185 | 0.550                      | -0.4572 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2607  | 0.005 | 0.2521  | 0.005 | 0.1704  |
| 0.010 | -0.0041 | 0.010 | -0.0742 | 0.010 | -0.2285 |

Flight 16 Test point 31

Sweep, deg = 25.3 Mach = 0.76 hp, ft = 20200. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 385.5 Rnpu = 3142000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.939   | 0.000                    | 0.9232  | 0.000                      | 0.9221  |
| 0.005                       | 0.1017  | 0.005                    | 0.1394  | 0.005                      | 0.3999  |
| 0.010                       | -0.1601 | 0.010                    | -0.1177 | 0.010                      | 0.1148  |
| 0.020                       | -0.4055 | 0.020                    | -0.3668 | 0.020                      | -0.2291 |
| 0.040                       | -0.5799 | 0.040                    | -0.5327 | 0.040                      | -0.3966 |
| 0.060                       | -0.6422 | 0.060                    | -0.5767 | 0.060                      | -0.4889 |
| 0.080                       | -0.7144 | 0.080                    | -0.6118 | 0.080                      | -0.5169 |
| 0.100                       | -0.6621 | 0.100                    | -0.6225 | 0.100                      | -0.5322 |
| 0.125                       | -0.6158 | 0.125                    | -0.6263 | 0.125                      | -0.5281 |
| 0.150                       | -0.6816 | 0.150                    | -0.6402 | 0.150                      | -0.5628 |
| 0.175                       | -0.7024 | 0.175                    | -0.6840 | 0.175                      | -0.6052 |
| 0.200                       | -0.7211 | 0.200                    | -0.7067 | 0.200                      | -0.6003 |
| 0.250                       | -0.8170 | 0.250                    | -0.8336 | 0.250                      | -0.6642 |
| 0.300                       | -0.8197 | 0.300                    | -0.8611 | 0.300                      | -0.6612 |
| 0.350                       | -0.7438 | 0.350                    | -0.8051 | 0.350                      | -0.6428 |
| 0.400                       | -0.6145 | 0.400                    | -0.6383 | 0.400                      | -0.5855 |
| 0.450                       | -0.5377 | 0.450                    | -0.5912 | 0.450                      | -0.5419 |
| 0.500                       | -0.5085 | 0.500                    | -0.5641 | 0.500                      | -0.4822 |
| 0.550                       | -0.4379 | 0.550                    | -0.5416 | 0.550                      | -0.4723 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4106 | 0.005 | 0.4166 | 0.005 | 0.3523  |
| 0.010 | 0.1654 | 0.010 | 0.1218 | 0.010 | -0.0039 |

Flight 17 Test point 1

Sweep, deg = 20.1 Mach = 0.70 hp, ft = 9600. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 504.3 Rnpu = 4111000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9512  | 0.000                    | 0.9837  | 0.000                      | 0.9538  |
| 0.005                       | 0.3124  | 0.005                    | 0.3801  | 0.005                      | 0.6229  |
| 0.010                       | 0.0397  | 0.010                    | 0.1131  | 0.010                      | 0.3625  |
| 0.020                       | -0.2163 | 0.020                    | -0.1486 | 0.020                      | 0.0196  |
| 0.040                       | -0.4112 | 0.040                    | -0.3258 | 0.040                      | -0.1730 |
| 0.060                       | -0.4756 | 0.060                    | -0.3891 | 0.060                      | -0.2753 |
| 0.080                       | -0.5126 | 0.080                    | -0.4327 | 0.080                      | -0.3252 |
| 0.100                       | -0.5299 | 0.100                    | -0.4529 | 0.100                      | -0.3560 |
| 0.125                       | -0.4954 | 0.125                    | -0.4648 | 0.125                      | -0.3717 |
| 0.150                       | -0.5745 | 0.150                    | -0.5037 | 0.150                      | -0.4094 |
| 0.175                       | -0.5742 | 0.175                    | -0.5371 | 0.175                      | -0.4377 |
| 0.200                       | -0.5259 | 0.200                    | -0.5751 | 0.200                      | -0.4487 |
| 0.250                       | -0.6421 | 0.250                    | -0.6146 | 0.250                      | -0.4889 |
| 0.300                       | -0.6377 | 0.300                    | -0.6190 | 0.300                      | -0.4993 |
| 0.350                       | -0.5916 | 0.350                    | -0.6041 | 0.350                      | -0.5129 |
| 0.400                       | -0.5454 | 0.400                    | -0.5866 | 0.400                      | -0.4991 |
| 0.450                       | -0.4916 | 0.450                    | -0.5471 | 0.450                      | -0.4732 |
| 0.500                       | -0.4787 | 0.500                    | -0.5265 | 0.500                      | -0.4349 |
| 0.550                       | -0.4244 | 0.550                    | -0.5228 | 0.550                      | -0.4465 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2322  | 0.005 | 0.2035  | 0.005 | 0.0863  |
| 0.010 | -0.0544 | 0.010 | -0.1511 | 0.010 | -0.3559 |

Fight 17 Test point 2

Sweep, deg = 20.1 Mach = 0.70 hp, ft = 9900. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 503.6 Rnpu = 4095000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0119  | 0.000                    | 1.0417  | 0.000                      | 1.0211  |
| 0.005                       | 0.3460  | 0.005                    | 0.4328  | 0.005                      | 0.6861  |
| 0.010                       | 0.0635  | 0.010                    | 0.1693  | 0.010                      | 0.4242  |
| 0.020                       | -0.2030 | 0.020                    | -0.1153 | 0.020                      | 0.0687  |
| 0.040                       | -0.4067 | 0.040                    | -0.3048 | 0.040                      | -0.1359 |
| 0.060                       | -0.4742 | 0.060                    | -0.3734 | 0.060                      | -0.2492 |
| 0.080                       | -0.5191 | 0.080                    | -0.4216 | 0.080                      | -0.3010 |
| 0.100                       | -0.5353 | 0.100                    | -0.4510 | 0.100                      | -0.3354 |
| 0.125                       | -0.5095 | 0.125                    | -0.4730 | 0.125                      | -0.3572 |
| 0.150                       | -0.5953 | 0.150                    | -0.5113 | 0.150                      | -0.3936 |
| 0.175                       | -0.5923 | 0.175                    | -0.5469 | 0.175                      | -0.4261 |
| 0.200                       | -0.6512 | 0.200                    | -0.5855 | 0.200                      | -0.4433 |
| 0.250                       | -0.6678 | 0.250                    | -0.6242 | 0.250                      | -0.5012 |
| 0.300                       | -0.6606 | 0.300                    | -0.6332 | 0.300                      | -0.5149 |
| 0.350                       | -0.6047 | 0.350                    | -0.6151 | 0.350                      | -0.5288 |
| 0.400                       | -0.5491 | 0.400                    | -0.5994 | 0.400                      | -0.5145 |
| 0.450                       | -0.4927 | 0.450                    | -0.5494 | 0.450                      | -0.4789 |
| 0.500                       | -0.4792 | 0.500                    | -0.5287 | 0.500                      | -0.4301 |
| 0.550                       | -0.4201 | 0.550                    | -0.5251 | 0.550                      | -0.4389 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2725  | 0.005 | 0.2285  | 0.005 | 0.0960  |
| 0.010 | -0.0232 | 0.010 | -0.1429 | 0.010 | -0.3683 |

Fight 17 Test point 3

Sweep, deg = 20.1 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 497.6 Rnpu = 4063000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9547  | 0.000                    | 0.9880  | 0.000                      | 0.9686  |
| 0.005                       | 0.3082  | 0.005                    | 0.3752  | 0.005                      | 0.6217  |
| 0.010                       | 0.0356  | 0.010                    | 0.1094  | 0.010                      | 0.3602  |
| 0.020                       | -0.2221 | 0.020                    | -0.1550 | 0.020                      | 0.0149  |
| 0.040                       | -0.4143 | 0.040                    | -0.3313 | 0.040                      | -0.1759 |
| 0.060                       | -0.4775 | 0.060                    | -0.3925 | 0.060                      | -0.2827 |
| 0.080                       | -0.5136 | 0.080                    | -0.4375 | 0.080                      | -0.3289 |
| 0.100                       | -0.5371 | 0.100                    | -0.4588 | 0.100                      | -0.3587 |
| 0.125                       | -0.5004 | 0.125                    | -0.4696 | 0.125                      | -0.3775 |
| 0.150                       | -0.5793 | 0.150                    | -0.5090 | 0.150                      | -0.4121 |
| 0.175                       | -0.5771 | 0.175                    | -0.5427 | 0.175                      | -0.4396 |
| 0.200                       | -0.6307 | 0.200                    | -0.5809 | 0.200                      | -0.4537 |
| 0.250                       | -0.6455 | 0.250                    | -0.6196 | 0.250                      | -0.5020 |
| 0.300                       | -0.6437 | 0.300                    | -0.6251 | 0.300                      | -0.5017 |
| 0.350                       | -0.5951 | 0.350                    | -0.6054 | 0.350                      | -0.5151 |
| 0.400                       | -0.5470 | 0.400                    | -0.5882 | 0.400                      | -0.5002 |
| 0.450                       | -0.4925 | 0.450                    | -0.5439 | 0.450                      | -0.4688 |
| 0.500                       | -0.4791 | 0.500                    | -0.5254 | 0.500                      | -0.4184 |
| 0.550                       | -0.4241 | 0.550                    | -0.5253 | 0.550                      | -0.4169 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2377  | 0.005 | 0.2127  | 0.005 | 0.0933  |
| 0.010 | -0.0464 | 0.010 | -0.1412 | 0.010 | -0.3466 |

Fight 17 Test point: 4

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 10100. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 499.9 Rnpu = 4071000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9565  | 0.000                    | 0.9900  | 0.000                      | 0.9739  |
| 0.005                       | 0.2718  | 0.005                    | 0.3410  | 0.005                      | 0.5950  |
| 0.010                       | -0.0033 | 0.010                    | 0.0715  | 0.010                      | 0.3271  |
| 0.020                       | -0.2597 | 0.020                    | -0.1906 | 0.020                      | -0.0209 |
| 0.040                       | -0.4493 | 0.040                    | -0.3670 | 0.040                      | -0.2085 |
| 0.060                       | -0.5103 | 0.060                    | -0.4269 | 0.060                      | -0.3094 |
| 0.080                       | -0.5468 | 0.080                    | -0.4708 | 0.080                      | -0.3555 |
| 0.100                       | -0.5645 | 0.100                    | -0.4908 | 0.100                      | -0.3929 |
| 0.125                       | -0.5236 | 0.125                    | -0.4978 | 0.125                      | -0.4095 |
| 0.150                       | -0.6065 | 0.150                    | -0.5336 | 0.150                      | -0.4368 |
| 0.175                       | -0.6017 | 0.175                    | -0.5682 | 0.175                      | -0.4636 |
| 0.200                       | -0.3553 | 0.200                    | -0.6072 | 0.200                      | -0.4761 |
| 0.250                       | -0.6690 | 0.250                    | -0.6460 | 0.250                      | -0.5246 |
| 0.300                       | -0.6648 | 0.300                    | -0.6477 | 0.300                      | -0.5218 |
| 0.350                       | -0.6116 | 0.350                    | -0.6276 | 0.350                      | -0.5362 |
| 0.400                       | -0.5619 | 0.400                    | -0.6078 | 0.400                      | -0.5172 |
| 0.450                       | -0.5066 | 0.450                    | -0.5574 | 0.450                      | -0.4875 |
| 0.500                       | -0.4909 | 0.500                    | -0.5357 | 0.500                      | -0.4394 |
| 0.550                       | -0.4319 | 0.550                    | -0.5331 | 0.550                      | -0.4329 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2764  | 0.005 | 0.2524  | 0.005 | 0.1385  |
| 0.010 | -0.0068 | 0.010 | -0.0956 | 0.010 | -0.2934 |



Fight 17 Test point 5

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 10100. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 495.1 Rnpu = 4050000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9488  | 0.000                    | 0.9836  | 0.000                      | 0.9786  |
| 0.005                       | 0.0487  | 0.005                    | 0.1253  | 0.005                      | 0.4287  |
| 0.010                       | -0.2337 | 0.010                    | -0.1623 | 0.010                      | 0.1269  |
| 0.020                       | -0.4936 | 0.020                    | -0.4177 | 0.020                      | -0.2406 |
| 0.040                       | -0.6621 | 0.040                    | -0.5752 | 0.040                      | -0.4003 |
| 0.060                       | -0.6966 | 0.060                    | -0.6106 | 0.060                      | -0.4808 |
| 0.080                       | -0.7111 | 0.080                    | -0.6383 | 0.080                      | -0.5131 |
| 0.100                       | -0.7249 | 0.100                    | -0.6432 | 0.100                      | -0.5424 |
| 0.125                       | -0.6413 | 0.125                    | -0.6299 | 0.125                      | -0.5423 |
| 0.150                       | -0.7332 | 0.150                    | -0.6643 | 0.150                      | -0.5567 |
| 0.175                       | -0.7070 | 0.175                    | -0.6896 | 0.175                      | -0.5747 |
| 0.200                       | -0.7652 | 0.200                    | -0.7260 | 0.200                      | -0.5787 |
| 0.250                       | -0.7656 | 0.250                    | -0.7489 | 0.250                      | -0.6202 |
| 0.300                       | -0.7436 | 0.300                    | -0.7346 | 0.300                      | -0.6092 |
| 0.350                       | -0.6716 | 0.350                    | -0.6952 | 0.350                      | -0.6018 |
| 0.400                       | -0.6080 | 0.400                    | -0.6607 | 0.400                      | -0.5690 |
| 0.450                       | -0.5432 | 0.450                    | -0.6024 | 0.450                      | -0.5369 |
| 0.500                       | -0.5199 | 0.500                    | -0.5727 | 0.500                      | -0.4802 |
| 0.550                       | -0.4544 | 0.550                    | -0.5595 | 0.550                      | -0.4630 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4628 | 0.005 | 0.4471 | 0.005 | 0.3487  |
| 0.010 | 0.2028 | 0.010 | 0.1360 | 0.010 | -0.0333 |

Fight 17 Test point 6

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 497.9 Rnpu = 4069000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8792  | 0.000                    | 0.9113  | 0.000                      | 0.8970  |
| 0.005                       | 0.2387  | 0.005                    | 0.2986  | 0.005                      | 0.5399  |
| 0.010                       | -0.0144 | 0.010                    | 0.0486  | 0.010                      | 0.2887  |
| 0.020                       | -0.2480 | 0.020                    | -0.1929 | 0.020                      | -0.0330 |
| 0.040                       | -0.4034 | 0.040                    | -0.3498 | 0.040                      | -0.2057 |
| 0.060                       | -0.4567 | 0.060                    | -0.3866 | 0.060                      | -0.2964 |
| 0.080                       | -0.4935 | 0.080                    | -0.4252 | 0.080                      | -0.3308 |
| 0.100                       | -0.5192 | 0.100                    | -0.4468 | 0.100                      | -0.3542 |
| 0.125                       | -0.4778 | 0.125                    | -0.4631 | 0.125                      | -0.3665 |
| 0.150                       | -0.5499 | 0.150                    | -0.4942 | 0.150                      | -0.3938 |
| 0.175                       | -0.5462 | 0.175                    | -0.5224 | 0.175                      | -0.4171 |
| 0.200                       | -0.5883 | 0.200                    | -0.5514 | 0.200                      | -0.4255 |
| 0.250                       | -0.6020 | 0.250                    | -0.5835 | 0.250                      | -0.4750 |
| 0.300                       | -0.5985 | 0.300                    | -0.5840 | 0.300                      | -0.4804 |
| 0.350                       | -0.5537 | 0.350                    | -0.5612 | 0.350                      | -0.4887 |
| 0.400                       | -0.5132 | 0.400                    | -0.5473 | 0.400                      | -0.4743 |
| 0.450                       | -0.4638 | 0.450                    | -0.5076 | 0.450                      | -0.4482 |
| 0.500                       | -0.4529 | 0.500                    | -0.4916 | 0.500                      | -0.4102 |
| 0.550                       | -0.3997 | 0.550                    | -0.4925 | 0.550                      | -0.4166 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2350  | 0.005 | 0.2187  | 0.005 | 0.1053  |
| 0.010 | -0.0264 | 0.010 | -0.1080 | 0.010 | -0.2929 |

Fight 17 Test point 7

Sweep, deg = 25.3 Mach = 0.71 h<sub>0</sub>, ft = 10100. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 513.9 Rnpu = 4136000.

Upper surface

| BL 200.8<br>Inboard station |                | BL 260<br>Middle station |                | BL 320<br>Outboard station |                |
|-----------------------------|----------------|--------------------------|----------------|----------------------------|----------------|
| x/c                         | C <sub>p</sub> | x/c                      | C <sub>p</sub> | x/c                        | C <sub>p</sub> |
| 0.000                       | 0.8867         | 0.000                    | 0.9169         | 0.000                      | 0.9061         |
| 0.005                       | 0.1621         | 0.005                    | 0.2195         | 0.005                      | 0.4744         |
| 0.010                       | -0.0956        | 0.010                    | -0.0325        | 0.010                      | 0.2107         |
| 0.020                       | -0.3339        | 0.020                    | -0.2820        | 0.020                      | -0.1120        |
| 0.040                       | -0.4949        | 0.040                    | -0.4194        | 0.040                      | -0.2699        |
| 0.060                       | -0.5407        | 0.060                    | -0.4700        | 0.060                      | -0.3578        |
| 0.080                       | -0.5700        | 0.080                    | -0.5014        | 0.080                      | -0.3993        |
| 0.100                       | -0.5889        | 0.100                    | -0.5168        | 0.100                      | -0.4292        |
| 0.125                       | -0.5344        | 0.125                    | -0.5277        | 0.125                      | -0.4335        |
| 0.150                       | -0.6103        | 0.150                    | -0.5569        | 0.150                      | -0.4531        |
| 0.175                       | -0.5998        | 0.175                    | -0.5819        | 0.175                      | -0.4732        |
| 0.200                       | -0.6487        | 0.200                    | -0.6128        | 0.200                      | -0.4797        |
| 0.250                       | -0.6581        | 0.250                    | -0.6437        | 0.250                      | -0.5258        |
| 0.300                       | -0.6483        | 0.300                    | -0.6330        | 0.300                      | -0.5278        |
| 0.350                       | -0.5938        | 0.350                    | -0.6073        | 0.350                      | -0.5311        |
| 0.400                       | -0.5472        | 0.400                    | -0.5846        | 0.400                      | -0.5059        |
| 0.450                       | -0.4895        | 0.450                    | -0.5356        | 0.450                      | -0.4754        |
| 0.500                       | -0.4762        | 0.500                    | -0.5149        | 0.500                      | -0.4270        |
| 0.550                       | -0.4162        | 0.550                    | -0.5099        | 0.550                      | -0.4250        |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3318 | 0.005 | 0.3219 | 0.005 | 0.2194  |
| 0.010 | 0.0833 | 0.010 | 0.0187 | 0.010 | -0.1522 |

Fight 17 Test point 8

Sweep, deg = 25.3 Mach = 0.71 hp, ft = 10100. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 510.5 Rnpu = 4117000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8781  | 0.000                    | 0.9114  | 0.000                      | 0.9063  |
| 0.005                       | 0.0703  | 0.005                    | 0.1323  | 0.005                      | 0.4093  |
| 0.010                       | -0.1896 | 0.010                    | -0.1318 | 0.010                      | 0.1328  |
| 0.020                       | -0.4263 | 0.020                    | -0.3688 | 0.020                      | -0.2045 |
| 0.040                       | -0.5799 | 0.040                    | -0.5088 | 0.040                      | -0.3554 |
| 0.060                       | -0.5970 | 0.060                    | -0.5371 | 0.060                      | -0.4278 |
| 0.080                       | -0.6223 | 0.080                    | -0.5514 | 0.080                      | -0.4628 |
| 0.100                       | -0.6395 | 0.100                    | -0.5651 | 0.100                      | -0.4883 |
| 0.125                       | -0.5750 | 0.125                    | -0.5696 | 0.125                      | -0.4776 |
| 0.150                       | -0.6517 | 0.150                    | -0.5977 | 0.150                      | -0.4840 |
| 0.175                       | -0.6341 | 0.175                    | -0.6213 | 0.175                      | -0.5075 |
| 0.200                       | -0.6828 | 0.200                    | -0.6517 | 0.200                      | -0.5100 |
| 0.250                       | -0.6872 | 0.250                    | -0.6754 | 0.250                      | -0.5547 |
| 0.300                       | -0.6742 | 0.300                    | -0.6629 | 0.300                      | -0.5525 |
| 0.350                       | -0.6146 | 0.350                    | -0.6300 | 0.350                      | -0.5562 |
| 0.400                       | -0.5621 | 0.400                    | -0.6039 | 0.400                      | -0.5285 |
| 0.450                       | -0.5013 | 0.450                    | -0.5521 | 0.450                      | -0.4950 |
| 0.500                       | -0.4824 | 0.500                    | -0.5275 | 0.500                      | -0.4496 |
| 0.550                       | -0.4234 | 0.550                    | -0.5207 | 0.550                      | -0.4439 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3885 | 0.005 | 0.3838 | 0.005 | 0.2927  |
| 0.010 | 0.1440 | 0.010 | 0.0902 | 0.010 | -0.0538 |

Fight 17 Test point 9

Sweep, deg = 30.1 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 498.8 R<sub>npu</sub> = 4071000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7983  | 0.000                    | 0.8274  | 0.000                      | 0.8139  |
| 0.005                       | 0.1948  | 0.005                    | 0.2402  | 0.005                      | 0.4683  |
| 0.010                       | -0.0384 | 0.010                    | 0.0153  | 0.010                      | 0.2365  |
| 0.020                       | -0.2476 | 0.020                    | -0.2073 | 0.020                      | -0.0581 |
| 0.040                       | -0.3911 | 0.040                    | -0.3276 | 0.040                      | -0.2005 |
| 0.060                       | -0.4335 | 0.060                    | -0.3762 | 0.060                      | -0.2826 |
| 0.080                       | -0.4638 | 0.080                    | -0.4042 | 0.080                      | -0.3113 |
| 0.100                       | -0.4810 | 0.100                    | -0.4226 | 0.100                      | -0.3363 |
| 0.125                       | -0.4399 | 0.125                    | -0.4334 | 0.125                      | -0.3517 |
| 0.150                       | -0.5018 | 0.150                    | -0.4563 | 0.150                      | -0.3761 |
| 0.175                       | -0.4956 | 0.175                    | -0.4797 | 0.175                      | -0.3950 |
| 0.200                       | -0.5339 | 0.200                    | -0.5036 | 0.200                      | -0.3995 |
| 0.250                       | -0.5458 | 0.250                    | -0.5314 | 0.250                      | -0.4404 |
| 0.300                       | -0.5429 | 0.300                    | -0.5284 | 0.300                      | -0.4423 |
| 0.350                       | -0.5013 | 0.350                    | -0.5069 | 0.350                      | -0.4519 |
| 0.400                       | -0.4667 | 0.400                    | -0.5008 | 0.400                      | -0.4407 |
| 0.450                       | -0.4262 | 0.450                    | -0.4597 | 0.450                      | -0.4195 |
| 0.500                       | -0.4154 | 0.500                    | -0.4503 | 0.500                      | -0.3948 |
| 0.550                       | -0.3710 | 0.550                    | -0.4525 | 0.550                      | -0.4105 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2116  | 0.005 | 0.2128  | 0.005 | 0.1088  |
| 0.010 | -0.0238 | 0.010 | -0.0797 | 0.010 | -0.2366 |

Fight 17 Test point 10

Sweep, deg = 30.1 Mach = 0.71 hp, ft = 10100. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 505.9 R<sub>pu</sub> = 4100000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7986  | 0.000                    | 0.8275  | 0.000                      | 0.8207  |
| 0.005                       | 0.1422  | 0.005                    | 0.1855  | 0.005                      | 0.4232  |
| 0.010                       | -0.0940 | 0.010                    | -0.0422 | 0.010                      | 0.1830  |
| 0.020                       | -0.3056 | 0.020                    | -0.2677 | 0.020                      | -0.1124 |
| 0.040                       | -0.4454 | 0.040                    | -0.3847 | 0.040                      | -0.2586 |
| 0.060                       | -0.4802 | 0.060                    | -0.4266 | 0.060                      | -0.3313 |
| 0.080                       | -0.5061 | 0.080                    | -0.4506 | 0.080                      | -0.3587 |
| 0.100                       | -0.5197 | 0.100                    | -0.4628 | 0.100                      | -0.3795 |
| 0.125                       | -0.4705 | 0.125                    | -0.4710 | 0.125                      | -0.3913 |
| 0.150                       | -0.5363 | 0.150                    | -0.4946 | 0.150                      | -0.4113 |
| 0.175                       | -0.5290 | 0.175                    | -0.5139 | 0.175                      | -0.4284 |
| 0.200                       | -0.5676 | 0.200                    | -0.5363 | 0.200                      | -0.4320 |
| 0.250                       | -0.5751 | 0.250                    | -0.5609 | 0.250                      | -0.4673 |
| 0.300                       | -0.5681 | 0.300                    | -0.5534 | 0.300                      | -0.4678 |
| 0.350                       | -0.5230 | 0.350                    | -0.5317 | 0.350                      | -0.4744 |
| 0.400                       | -0.4850 | 0.400                    | -0.5173 | 0.400                      | -0.4570 |
| 0.450                       | -0.4402 | 0.450                    | -0.4802 | 0.450                      | -0.4354 |
| 0.500                       | -0.4318 | 0.500                    | -0.4634 | 0.500                      | -0.4038 |
| 0.550                       | -0.3809 | 0.550                    | -0.4641 | 0.550                      | -0.4125 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2716 | 0.005 | 0.2716  | 0.005 | 0.1769  |
| 0.010 | 0.0399 | 0.010 | -0.0084 | 0.010 | -0.1552 |

Fight 17 Test point 11

Sweep, deg = 30.1 Mach = 0.70 hp, ft = 10300. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 496.2 Rnpu = 404900.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7830  | 0.000                    | 0.8083  | 0.000                      | 0.8112  |
| 0.005                       | -0.0399 | 0.005                    | 0.0019  | 0.005                      | 0.2768  |
| 0.010                       | -0.2801 | 0.010                    | -0.2368 | 0.010                      | 0.0121  |
| 0.020                       | -0.4902 | 0.020                    | -0.4508 | 0.020                      | -0.2901 |
| 0.040                       | -0.6015 | 0.040                    | -0.5437 | 0.040                      | -0.4105 |
| 0.060                       | -0.6154 | 0.060                    | -0.5641 | 0.060                      | -0.4631 |
| 0.080                       | -0.6234 | 0.080                    | -0.5739 | 0.080                      | -0.4755 |
| 0.100                       | -0.6269 | 0.100                    | -0.5748 | 0.100                      | -0.4872 |
| 0.125                       | -0.5515 | 0.125                    | -0.5683 | 0.125                      | -0.4889 |
| 0.150                       | -0.6223 | 0.150                    | -0.5833 | 0.150                      | -0.4967 |
| 0.175                       | -0.6002 | 0.175                    | -0.5975 | 0.175                      | -0.5056 |
| 0.200                       | -0.6384 | 0.200                    | -0.6155 | 0.200                      | -0.5009 |
| 0.250                       | -0.6371 | 0.250                    | -0.6286 | 0.250                      | -0.5314 |
| 0.300                       | -0.6204 | 0.300                    | -0.6136 | 0.300                      | -0.5223 |
| 0.350                       | -0.5683 | 0.350                    | -0.5784 | 0.350                      | -0.5201 |
| 0.400                       | -0.5206 | 0.400                    | -0.5579 | 0.400                      | -0.4943 |
| 0.450                       | -0.4710 | 0.450                    | -0.5133 | 0.450                      | -0.4638 |
| 0.500                       | -0.4552 | 0.500                    | -0.4918 | 0.500                      | -0.4265 |
| 0.550                       | -0.3985 | 0.550                    | -0.4856 | 0.550                      | -0.4307 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4073 | 0.005 | 0.4126 | 0.005 | 0.3373 |
| 0.010 | 0.1905 | 0.010 | 0.1579 | 0.010 | 0.0396 |

Fight 17 Test point 12

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 498.9 Rnpu = 4069000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7154  | 0.000                    | 0.7426  | 0.000                      | 0.7354  |
| 0.005                       | 0.1042  | 0.005                    | 0.1383  | 0.005                      | 0.3616  |
| 0.010                       | -0.1076 | 0.010                    | -0.0679 | 0.010                      | 0.1406  |
| 0.020                       | -0.2958 | 0.020                    | -0.2657 | 0.020                      | -0.1244 |
| 0.040                       | -0.4121 | 0.040                    | -0.3587 | 0.040                      | -0.2475 |
| 0.060                       | -0.4408 | 0.060                    | -0.3913 | 0.060                      | -0.3109 |
| 0.080                       | -0.4570 | 0.080                    | -0.4085 | 0.080                      | -0.3294 |
| 0.100                       | -0.4666 | 0.100                    | -0.4168 | 0.100                      | -0.3467 |
| 0.125                       | -0.4220 | 0.125                    | -0.4224 | 0.125                      | -0.3530 |
| 0.150                       | -0.4785 | 0.150                    | -0.4389 | 0.150                      | -0.3680 |
| 0.175                       | -0.4713 | 0.175                    | -0.4566 | 0.175                      | -0.3839 |
| 0.200                       | -0.5016 | 0.200                    | -0.4745 | 0.200                      | -0.3834 |
| 0.250                       | -0.5074 | 0.250                    | -0.4930 | 0.250                      | -0.4156 |
| 0.300                       | -0.5014 | 0.300                    | -0.4847 | 0.300                      | -0.4147 |
| 0.350                       | -0.4625 | 0.350                    | -0.4659 | 0.350                      | -0.4188 |
| 0.400                       | -0.4336 | 0.400                    | -0.4568 | 0.400                      | -0.4025 |
| 0.450                       | -0.3936 | 0.450                    | -0.4224 | 0.450                      | -0.3855 |
| 0.500                       | -0.3860 | 0.500                    | -0.4103 | 0.500                      | -0.3624 |
| 0.550                       | -0.3435 | 0.550                    | -0.4174 | 0.550                      | -0.3803 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2371 | 0.005 | 0.2471  | 0.005 | 0.1598  |
| 0.010 | 0.0275 | 0.010 | -0.0054 | 0.010 | -0.1324 |



Fight 17 Test point 13

Sweep, deg = 34.9 Mach = 0.71 hp, ft = 10200. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 502.9 Rnpu = 4079000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7093  | 0.000                    | 0.7377  | 0.000                      | 0.7365  |
| 0.005                       | 0.0198  | 0.005                    | 0.0541  | 0.005                      | 0.2976  |
| 0.010                       | -0.1955 | 0.010                    | -0.1534 | 0.010                      | 0.0657  |
| 0.020                       | -0.3785 | 0.020                    | -0.3501 | 0.020                      | -0.2047 |
| 0.040                       | -0.4811 | 0.040                    | -0.4331 | 0.040                      | -0.3154 |
| 0.060                       | -0.5078 | 0.060                    | -0.4577 | 0.060                      | -0.3670 |
| 0.080                       | -0.5181 | 0.080                    | -0.4668 | 0.080                      | -0.3840 |
| 0.100                       | -0.5177 | 0.100                    | -0.4711 | 0.100                      | -0.3969 |
| 0.125                       | -0.4611 | 0.125                    | -0.4676 | 0.125                      | -0.3989 |
| 0.150                       | -0.5200 | 0.150                    | -0.4844 | 0.150                      | -0.4078 |
| 0.175                       | -0.5068 | 0.175                    | -0.4980 | 0.175                      | -0.4197 |
| 0.200                       | -0.5379 | 0.200                    | -0.5137 | 0.200                      | -0.4172 |
| 0.250                       | -0.5384 | 0.250                    | -0.5268 | 0.250                      | -0.4485 |
| 0.300                       | -0.5292 | 0.300                    | -0.5164 | 0.300                      | -0.4375 |
| 0.350                       | -0.4881 | 0.350                    | -0.4915 | 0.350                      | -0.4402 |
| 0.400                       | -0.4535 | 0.400                    | -0.4761 | 0.400                      | -0.4224 |
| 0.450                       | -0.4116 | 0.450                    | -0.4424 | 0.450                      | -0.3994 |
| 0.500                       | -0.3989 | 0.500                    | -0.4280 | 0.500                      | -0.3741 |
| 0.550                       | -0.3553 | 0.550                    | -0.4294 | 0.550                      | -0.3904 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3053 | 0.005 | 0.3143 | 0.005 | 0.2363  |
| 0.010 | 0.1040 | 0.010 | 0.0743 | 0.010 | -0.0425 |

Fight 17 Test point 14

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 10100. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 496.3 Rnpu = 4053000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7035  | 0.000                    | 0.7293  | 0.000                      | 0.7337  |
| 0.005                       | -0.0603 | 0.005                    | -0.0209 | 0.005                      | 0.2392  |
| 0.010                       | -0.2752 | 0.010                    | -0.2333 | 0.010                      | -0.0014 |
| 0.020                       | -0.4547 | 0.020                    | -0.4216 | 0.020                      | -0.2720 |
| 0.040                       | -0.5421 | 0.040                    | -0.4917 | 0.040                      | -0.3729 |
| 0.060                       | -0.5586 | 0.060                    | -0.5053 | 0.060                      | -0.4151 |
| 0.080                       | -0.5630 | 0.080                    | -0.5103 | 0.080                      | -0.4241 |
| 0.100                       | -0.5563 | 0.100                    | -0.5092 | 0.100                      | -0.4347 |
| 0.125                       | -0.4883 | 0.125                    | -0.5016 | 0.125                      | -0.4314 |
| 0.150                       | -0.5497 | 0.150                    | -0.5165 | 0.150                      | -0.4383 |
| 0.175                       | -0.5318 | 0.175                    | -0.5265 | 0.175                      | -0.4462 |
| 0.200                       | -0.5612 | 0.200                    | -0.5400 | 0.200                      | -0.4420 |
| 0.250                       | -0.5596 | 0.250                    | -0.5513 | 0.250                      | -0.4658 |
| 0.300                       | -0.5482 | 0.300                    | -0.5354 | 0.300                      | -0.4569 |
| 0.350                       | -0.5017 | 0.350                    | -0.5069 | 0.350                      | -0.4561 |
| 0.400                       | -0.4641 | 0.400                    | -0.4891 | 0.400                      | -0.4351 |
| 0.450                       | -0.4207 | 0.450                    | -0.4524 | 0.450                      | -0.4106 |
| 0.500                       | -0.4066 | 0.500                    | -0.4370 | 0.500                      | -0.3804 |
| 0.550                       | -0.3603 | 0.550                    | -0.4359 | 0.550                      | -0.3955 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3621 | 0.005 | 0.3701 | 0.005 | 0.2981 |
| 0.010 | 0.1669 | 0.010 | 0.1400 | 0.010 | 0.0313 |

Fight 17 Test point 15

Sweep, deg = 20.1 Mach = 0.60 hp, ft = 10000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 337.8 Rnpu = 3452000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9302  | 0.000                    | 0.9713  | 0.000                      | 0.9628  |
| 0.005                       | 0.1048  | 0.005                    | 0.1910  | 0.005                      | 0.4890  |
| 0.010                       | -0.1592 | 0.010                    | -0.0770 | 0.010                      | 0.2054  |
| 0.020                       | -0.3894 | 0.020                    | -0.3123 | 0.020                      | -0.1298 |
| 0.040                       | -0.5234 | 0.040                    | -0.4427 | 0.040                      | -0.2801 |
| 0.060                       | -0.5543 | 0.060                    | -0.4692 | 0.060                      | -0.3513 |
| 0.080                       | -0.5669 | 0.080                    | -0.4885 | 0.080                      | -0.3722 |
| 0.100                       | -0.5701 | 0.100                    | -0.4959 | 0.100                      | -0.3908 |
| 0.125                       | -0.5033 | 0.125                    | -0.4896 | 0.125                      | -0.3998 |
| 0.150                       | -0.5708 | 0.150                    | -0.5127 | 0.150                      | -0.4230 |
| 0.175                       | -0.5567 | 0.175                    | -0.5317 | 0.175                      | -0.4342 |
| 0.200                       | -0.5913 | 0.200                    | -0.5520 | 0.200                      | -0.4403 |
| 0.250                       | -0.5969 | 0.250                    | -0.5716 | 0.250                      | -0.4677 |
| 0.300                       | -0.5807 | 0.300                    | -0.5636 | 0.300                      | -0.4629 |
| 0.350                       | -0.5349 | 0.350                    | -0.5403 | 0.350                      | -0.4736 |
| 0.400                       | -0.4974 | 0.400                    | -0.5320 | 0.400                      | -0.4599 |
| 0.450                       | -0.4478 | 0.450                    | -0.4929 | 0.450                      | -0.4447 |
| 0.500                       | -0.4417 | 0.500                    | -0.4824 | 0.500                      | -0.4170 |
| 0.550                       | -0.3891 | 0.550                    | -0.4868 | 0.550                      | -0.4288 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3530 | 0.005 | 0.3341 | 0.005 | 0.2049  |
| 0.010 | 0.0888 | 0.010 | 0.0113 | 0.010 | -0.1891 |

Fight 17 Test point 16

Sweep, deg = 26.2 Mach = 0.60 hp, ft = 10000. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 370.7 Rnpu = 3466000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8421  | 0.000                    | 0.8805  | 0.000                      | 0.8827  |
| 0.005                       | 0.0027  | 0.005                    | 0.0772  | 0.005                      | 0.3758  |
| 0.010                       | -0.2396 | 0.010                    | -0.1679 | 0.010                      | 0.1020  |
| 0.020                       | -0.4395 | 0.020                    | -0.3774 | 0.020                      | -0.2053 |
| 0.040                       | -0.5449 | 0.040                    | -0.4775 | 0.040                      | -0.3304 |
| 0.060                       | -0.5617 | 0.060                    | -0.4824 | 0.060                      | -0.3823 |
| 0.080                       | -0.5642 | 0.080                    | -0.4834 | 0.080                      | -0.3966 |
| 0.100                       | -0.5527 | 0.100                    | -0.4898 | 0.100                      | -0.4078 |
| 0.125                       | -0.4904 | 0.125                    | -0.4896 | 0.125                      | -0.4131 |
| 0.150                       | -0.5552 | 0.150                    | -0.5080 | 0.150                      | -0.4098 |
| 0.175                       | -0.5394 | 0.175                    | -0.5240 | 0.175                      | -0.4269 |
| 0.200                       | -0.5738 | 0.200                    | -0.5383 | 0.200                      | -0.4244 |
| 0.250                       | -0.5706 | 0.250                    | -0.5551 | 0.250                      | -0.4577 |
| 0.300                       | -0.5568 | 0.300                    | -0.5407 | 0.300                      | -0.4497 |
| 0.350                       | -0.5120 | 0.350                    | -0.5176 | 0.350                      | -0.4560 |
| 0.400                       | -0.4737 | 0.400                    | -0.5062 | 0.400                      | -0.4447 |
| 0.450                       | -0.4281 | 0.450                    | -0.4666 | 0.450                      | -0.4261 |
| 0.500                       | -0.4194 | 0.500                    | -0.4620 | 0.500                      | -0.4008 |
| 0.550                       | -0.3703 | 0.550                    | -0.4620 | 0.550                      | -0.4178 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3720 | 0.005 | 0.3634 | 0.005 | 0.2550  |
| 0.010 | 0.1362 | 0.010 | 0.0761 | 0.010 | -0.0875 |

Fight 17 Test point 17

Sweep, deg = 23.6 Mach = 0.60 hp, ft = 10300. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 354.3 Rrho = 3422000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8857  | 0.000                    | 0.9253  | 0.000                      | 0.9147  |
| 0.005                       | 0.0860  | 0.005                    | 0.1621  | 0.005                      | 0.4569  |
| 0.010                       | -0.1674 | 0.010                    | -0.0911 | 0.010                      | 0.1805  |
| 0.020                       | -0.3808 | 0.020                    | -0.3159 | 0.020                      | -0.1393 |
| 0.040                       | -0.5105 | 0.040                    | -0.4346 | 0.040                      | -0.2810 |
| 0.060                       | -0.5361 | 0.060                    | -0.4578 | 0.060                      | -0.3468 |
| 0.080                       | -0.5448 | 0.080                    | -0.4665 | 0.080                      | -0.3664 |
| 0.100                       | -0.5462 | 0.100                    | -0.4680 | 0.100                      | -0.3855 |
| 0.125                       | -0.4762 | 0.125                    | -0.4724 | 0.125                      | -0.3915 |
| 0.150                       | -0.5481 | 0.150                    | -0.4933 | 0.150                      | -0.4096 |
| 0.175                       | -0.5349 | 0.175                    | -0.5152 | 0.175                      | -0.4171 |
| 0.200                       | -0.5678 | 0.200                    | -0.5321 | 0.200                      | -0.4129 |
| 0.250                       | -0.5720 | 0.250                    | -0.5535 | 0.250                      | -0.4529 |
| 0.300                       | -0.5619 | 0.300                    | -0.5442 | 0.300                      | -0.4482 |
| 0.350                       | -0.5164 | 0.350                    | -0.5190 | 0.350                      | -0.4551 |
| 0.400                       | -0.4797 | 0.400                    | -0.5113 | 0.400                      | -0.4475 |
| 0.450                       | -0.4359 | 0.450                    | -0.4722 | 0.450                      | -0.4306 |
| 0.500                       | -0.4278 | 0.500                    | -0.4646 | 0.500                      | -0.4034 |
| 0.550                       | -0.3782 | 0.550                    | -0.4674 | 0.550                      | -0.4232 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3331 | 0.005 | 0.3196 | 0.005 | 0.1966  |
| 0.010 | 0.0845 | 0.010 | 0.0094 | 0.010 | -0.1770 |

Fight 17 Test point 18

Sweep, deg = 20.1 Mach = 0.60 hp, ft = 9900. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = -5.2 QBAR, lb/ft<sup>2</sup> = 363.0 Rnpu = 3429000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9743  | 0.000                    | 1.0203  | 0.000                      | 1.0171  |
| 0.005                       | 0.0517  | 0.005                    | 0.1711  | 0.005                      | 0.5027  |
| 0.010                       | -0.2232 | 0.010                    | -0.1088 | 0.010                      | 0.2032  |
| 0.020                       | -0.4541 | 0.020                    | -0.3497 | 0.020                      | -0.1442 |
| 0.040                       | -0.5810 | 0.040                    | -0.4759 | 0.040                      | -0.2960 |
| 0.060                       | -0.6011 | 0.060                    | -0.5011 | 0.060                      | -0.3651 |
| 0.080                       | -0.6115 | 0.080                    | -0.5152 | 0.080                      | -0.3842 |
| 0.100                       | -0.5992 | 0.100                    | -0.5215 | 0.100                      | -0.4012 |
| 0.125                       | -0.5306 | 0.125                    | -0.5238 | 0.125                      | -0.4087 |
| 0.150                       | -0.6077 | 0.150                    | -0.5414 | 0.150                      | -0.4283 |
| 0.175                       | -0.5884 | 0.175                    | -0.5620 | 0.175                      | -0.4436 |
| 0.200                       | -0.6231 | 0.200                    | -0.5745 | 0.200                      | -0.4475 |
| 0.250                       | -0.6190 | 0.250                    | -0.5871 | 0.250                      | -0.4845 |
| 0.300                       | -0.6022 | 0.300                    | -0.5779 | 0.300                      | -0.4817 |
| 0.350                       | -0.5480 | 0.350                    | -0.5526 | 0.350                      | -0.4895 |
| 0.400                       | -0.5053 | 0.400                    | -0.5423 | 0.400                      | -0.4724 |
| 0.450                       | -0.4548 | 0.450                    | -0.4990 | 0.450                      | -0.4421 |
| 0.500                       | -0.4472 | 0.500                    | -0.4833 | 0.500                      | -0.4200 |
| 0.550                       | -0.3876 | 0.550                    | -0.4850 | 0.550                      | -0.4277 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4467 | 0.005 | 0.4017 | 0.005 | 0.2605  |
| 0.010 | 0.1816 | 0.010 | 0.0779 | 0.010 | -0.1442 |

Fight 17 Test point 19

Sweep, deg = 20.1 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 384.6 Rnpu = 3141000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9697  | 0.000                    | 1.0082  | 0.000                      | 0.9910  |
| 0.005                       | 0.3328  | 0.005                    | 0.3863  | 0.005                      | 0.6163  |
| 0.010                       | 0.0641  | 0.010                    | 0.1265  | 0.010                      | 0.3506  |
| 0.020                       | -0.1974 | 0.020                    | -0.1450 | 0.020                      | 0.0054  |
| 0.040                       | -0.4067 | 0.040                    | -0.3391 | 0.040                      | -0.1977 |
| 0.060                       | -0.4877 | 0.060                    | -0.4115 | 0.060                      | -0.3075 |
| 0.080                       | -0.5612 | 0.080                    | -0.4639 | 0.080                      | -0.3542 |
| 0.100                       | -0.5757 | 0.100                    | -0.4896 | 0.100                      | -0.3948 |
| 0.125                       | -0.5337 | 0.125                    | -0.5161 | 0.125                      | -0.4352 |
| 0.150                       | -0.6458 | 0.150                    | -0.5589 | 0.150                      | -0.4730 |
| 0.175                       | -0.6348 | 0.175                    | -0.6045 | 0.175                      | -0.5068 |
| 0.200                       | -0.6844 | 0.200                    | -0.6588 | 0.200                      | -0.5218 |
| 0.250                       | -0.7567 | 0.250                    | -0.7651 | 0.250                      | -0.6027 |
| 0.300                       | -0.7278 | 0.300                    | -0.7758 | 0.300                      | -0.6285 |
| 0.350                       | -0.8100 | 0.350                    | -0.7756 | 0.350                      | -0.6486 |
| 0.400                       | -0.5794 | 0.400                    | -0.6439 | 0.400                      | -0.5909 |
| 0.450                       | -0.5315 | 0.450                    | -0.5968 | 0.450                      | -0.5535 |
| 0.500                       | -0.5118 | 0.500                    | -0.5781 | 0.500                      | -0.4944 |
| 0.550                       | -0.4468 | 0.550                    | -0.5587 | 0.550                      | -0.4503 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2755  | 0.005 | 0.2645  | 0.005 | 0.1799  |
| 0.010 | -0.0128 | 0.010 | -0.0899 | 0.010 | -0.2527 |

Fight 17 Test point 20

Sweep, deg = 20.1 Mach = 0.75 hp, ft = 20100. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 377.0 Rnpu = 3101000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9697  | 0.000                    | 1.0067  | 0.000                      | 0.9951  |
| 0.005                       | 0.2272  | 0.005                    | 0.2797  | 0.005                      | 0.5363  |
| 0.010                       | -0.0478 | 0.010                    | 0.0129  | 0.010                      | 0.2521  |
| 0.020                       | -0.3051 | 0.020                    | -0.2564 | 0.020                      | -0.1068 |
| 0.040                       | -0.5064 | 0.040                    | -0.4435 | 0.040                      | -0.2978 |
| 0.060                       | -0.5695 | 0.060                    | -0.5025 | 0.060                      | -0.3997 |
| 0.080                       | -0.6740 | 0.080                    | -0.5498 | 0.080                      | -0.4336 |
| 0.100                       | -0.6441 | 0.100                    | -0.5709 | 0.100                      | -0.4716 |
| 0.125                       | -0.5912 | 0.125                    | -0.5859 | 0.125                      | -0.5081 |
| 0.150                       | -0.6951 | 0.150                    | -0.6169 | 0.150                      | -0.5396 |
| 0.175                       | -0.7203 | 0.175                    | -0.6690 | 0.175                      | -0.5686 |
| 0.200                       | -0.7527 | 0.200                    | -0.6980 | 0.200                      | -0.5803 |
| 0.250                       | -0.8492 | 0.250                    | -0.8161 | 0.250                      | -0.6490 |
| 0.300                       | -0.7414 | 0.300                    | -0.8377 | 0.300                      | -0.6655 |
| 0.350                       | -0.8339 | 0.350                    | -0.8618 | 0.350                      | -0.6782 |
| 0.400                       | -0.5890 | 0.400                    | -0.8406 | 0.400                      | -0.6097 |
| 0.450                       | -0.5418 | 0.450                    | -0.8042 | 0.450                      | -0.5646 |
| 0.500                       | -0.5212 | 0.500                    | -0.5866 | 0.500                      | -0.5025 |
| 0.550                       | -0.4497 | 0.550                    | -0.5648 | 0.550                      | -0.4555 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3681 | 0.005 | 0.3660 | 0.005 | 0.2869  |
| 0.010 | 0.0986 | 0.010 | 0.0315 | 0.010 | -0.1230 |



Flight 17 Test point 21

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 381.4 Rnpu = 3123000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9601  | 0.000                    | 0.9922  | 0.000                      | 0.9915  |
| 0.005                       | 0.0644  | 0.005                    | 0.1168  | 0.005                      | 0.3981  |
| 0.010                       | -0.2181 | 0.010                    | -0.1649 | 0.010                      | 0.0898  |
| 0.020                       | -0.2680 | 0.020                    | -0.4311 | 0.020                      | -0.2867 |
| 0.040                       | -0.7049 | 0.040                    | -0.6167 | 0.040                      | -0.4626 |
| 0.060                       | -0.6736 | 0.060                    | -0.6615 | 0.060                      | -0.5534 |
| 0.080                       | -0.7522 | 0.080                    | -0.7020 | 0.080                      | -0.5655 |
| 0.100                       | -0.9148 | 0.100                    | -0.7186 | 0.100                      | -0.5814 |
| 0.125                       | -0.7225 | 0.125                    | -0.6817 | 0.125                      | -0.6568 |
| 0.150                       | -0.8071 | 0.150                    | -0.7453 | 0.150                      | -0.6830 |
| 0.175                       | -0.8001 | 0.175                    | -0.7854 | 0.175                      | -0.6687 |
| 0.200                       | -0.8891 | 0.200                    | -0.8076 | 0.200                      | -0.7032 |
| 0.250                       | -0.9562 | 0.250                    | -0.9031 | 0.250                      | -0.7398 |
| 0.300                       | -1.0154 | 0.300                    | -0.9645 | 0.300                      | -0.8109 |
| 0.350                       | -0.9264 | 0.350                    | -0.9988 | 0.350                      | -0.8699 |
| 0.400                       | -0.7597 | 0.400                    | -1.0588 | 0.400                      | -0.8126 |
| 0.450                       | -0.5428 | 0.450                    | -0.5695 | 0.450                      | -0.5605 |
| 0.500                       | -0.5233 | 0.500                    | -0.5173 | 0.500                      | -0.5176 |
| 0.550                       | -0.4589 | 0.550                    | -0.5397 | 0.550                      | -0.4592 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5114 | 0.005 | 0.5115 | 0.005 | 0.4443 |
| 0.010 | 0.2591 | 0.010 | 0.2097 | 0.010 | 0.0789 |

Fight 17 Test point 22

Sweep, deg = 21.3 Mach = 0.80 hp, ft = 20800. Angle of attack, deg = -0.2  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 423.9 Rnpu = 3285000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9623  | 0.000                    | 0.9944  | 0.000                      | 0.9801  |
| 0.005                       | 0.4532  | 0.005                    | 0.5024  | 0.005                      | 0.6887  |
| 0.010                       | 0.1974  | 0.010                    | 0.2597  | 0.010                      | 0.4464  |
| 0.020                       | -0.0543 | 0.020                    | -0.0042 | 0.020                      | 0.1181  |
| 0.040                       | -0.2706 | 0.040                    | -0.2055 | 0.040                      | -0.0893 |
| 0.060                       | -0.3638 | 0.060                    | -0.2913 | 0.060                      | -0.2108 |
| 0.080                       | -0.4748 | 0.080                    | -0.3546 | 0.080                      | -0.2640 |
| 0.100                       | -0.4683 | 0.100                    | -0.3911 | 0.100                      | -0.3162 |
| 0.125                       | -0.4678 | 0.125                    | -0.4160 | 0.125                      | -0.3753 |
| 0.150                       | -0.5653 | 0.150                    | -0.4594 | 0.150                      | -0.4114 |
| 0.175                       | -0.5901 | 0.175                    | -0.5318 | 0.175                      | -0.4730 |
| 0.200                       | -0.6596 | 0.200                    | -0.5526 | 0.200                      | -0.4825 |
| 0.250                       | -0.7415 | 0.250                    | -0.6874 | 0.250                      | -0.5556 |
| 0.300                       | -0.8286 | 0.300                    | -0.7611 | 0.300                      | -0.6332 |
| 0.350                       | -0.8212 | 0.350                    | -0.8154 | 0.350                      | -0.7199 |
| 0.400                       | -0.8388 | 0.400                    | -0.8875 | 0.400                      | -0.7702 |
| 0.450                       | -0.8582 | 0.450                    | -0.9138 | 0.450                      | -0.8113 |
| 0.500                       | -0.7675 | 0.500                    | -0.9555 | 0.500                      | -0.8743 |
| 0.550                       | -0.4252 | 0.550                    | -0.9576 | 0.550                      | -0.7657 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2083  | 0.005 | 0.1994  | 0.005 | 0.1344  |
| 0.010 | -0.0740 | 0.010 | -0.1590 | 0.010 | -0.2989 |

Fight 17 Test point 23

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20900. Angle of attack, deg = -0.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 421.0 Rnpu = 3270000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9737  | 0.000                    | 1.0112  | 0.000                      | 0.9912  |
| 0.005                       | 0.4618  | 0.005                    | 0.5134  | 0.005                      | 0.7004  |
| 0.010                       | 0.2066  | 0.010                    | 0.2710  | 0.010                      | 0.4595  |
| 0.020                       | -0.0480 | 0.020                    | 0.0008  | 0.020                      | 0.1288  |
| 0.040                       | -0.2675 | 0.040                    | -0.2025 | 0.040                      | -0.0832 |
| 0.060                       | -0.3619 | 0.060                    | -0.2891 | 0.060                      | -0.2087 |
| 0.080                       | -0.4747 | 0.080                    | -0.3499 | 0.080                      | -0.2622 |
| 0.100                       | -0.4703 | 0.100                    | -0.3889 | 0.100                      | -0.3144 |
| 0.125                       | -0.4699 | 0.125                    | -0.4199 | 0.125                      | -0.3717 |
| 0.150                       | -0.5618 | 0.150                    | -0.4656 | 0.150                      | -0.4142 |
| 0.175                       | -0.5880 | 0.175                    | -0.5290 | 0.175                      | -0.4713 |
| 0.200                       | -0.6566 | 0.200                    | -0.5584 | 0.200                      | -0.4807 |
| 0.250                       | -0.7385 | 0.250                    | -0.6804 | 0.250                      | -0.5577 |
| 0.300                       | -0.8352 | 0.300                    | -0.7543 | 0.300                      | -0.6348 |
| 0.350                       | -0.8377 | 0.350                    | -0.8130 | 0.350                      | -0.7223 |
| 0.400                       | -0.8497 | 0.400                    | -0.8888 | 0.400                      | -0.7725 |
| 0.450                       | -0.8655 | 0.450                    | -0.9168 | 0.450                      | -0.8116 |
| 0.500                       | -0.9233 | 0.500                    | -0.9658 | 0.500                      | -0.8672 |
| 0.550                       | -0.4196 | 0.550                    | -0.9797 | 0.550                      | -0.8291 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2120  | 0.005 | 0.2021  | 0.005 | 0.1407  |
| 0.010 | -0.0761 | 0.010 | -0.1621 | 0.010 | -0.2987 |

Fight 17 Test point 24

Sweep, deg = 20.1 Mach = 0.80 hp, ft = 21000. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 418.3 Rrho = 3251000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0333  | 0.000                    | 1.0736  | 0.000                      | 1.0526  |
| 0.005                       | 0.4894  | 0.005                    | 0.5562  | 0.005                      | 0.7544  |
| 0.010                       | 0.2235  | 0.010                    | 0.3068  | 0.010                      | 0.5040  |
| 0.020                       | -0.0383 | 0.020                    | 0.0309  | 0.020                      | 0.1641  |
| 0.040                       | -0.2664 | 0.040                    | -0.1797 | 0.040                      | -0.0545 |
| 0.060                       | -0.3566 | 0.060                    | -0.2722 | 0.060                      | -0.1794 |
| 0.080                       | -0.4607 | 0.080                    | -0.3371 | 0.080                      | -0.2401 |
| 0.100                       | -0.4797 | 0.100                    | -0.3783 | 0.100                      | -0.2861 |
| 0.125                       | -0.4725 | 0.125                    | -0.4086 | 0.125                      | -0.3436 |
| 0.150                       | -0.5786 | 0.150                    | -0.4611 | 0.150                      | -0.3947 |
| 0.175                       | -0.5734 | 0.175                    | -0.5331 | 0.175                      | -0.4432 |
| 0.200                       | -0.6747 | 0.200                    | -0.5739 | 0.200                      | -0.4640 |
| 0.250                       | -0.7595 | 0.250                    | -0.6852 | 0.250                      | -0.5509 |
| 0.300                       | -0.8475 | 0.300                    | -0.7465 | 0.300                      | -0.6317 |
| 0.350                       | -0.8528 | 0.350                    | -0.8172 | 0.350                      | -0.7249 |
| 0.400                       | -0.8480 | 0.400                    | -0.8944 | 0.400                      | -0.7638 |
| 0.450                       | -0.9203 | 0.450                    | -0.9245 | 0.450                      | -0.8026 |
| 0.500                       | -1.0006 | 0.500                    | -0.9772 | 0.500                      | -0.8539 |
| 0.550                       | -0.6143 | 0.550                    | -0.9963 | 0.550                      | -0.8390 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2694  | 0.005 | 0.2471  | 0.005 | 0.1832  |
| 0.010 | -0.0241 | 0.010 | -0.1273 | 0.010 | -0.2668 |

Fight 17 Test point 25

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20400. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 432.2 Rnpu = 3338000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9870  | 0.000                    | 1.0198  | 0.000                      | 1.0048  |
| 0.005                       | 0.3660  | 0.005                    | 0.4210  | 0.005                      | 0.6323  |
| 0.010                       | 0.1025  | 0.010                    | 0.1673  | 0.010                      | 0.3731  |
| 0.020                       | -0.1529 | 0.020                    | -0.1009 | 0.020                      | 0.0265  |
| 0.040                       | -0.3644 | 0.040                    | -0.3018 | 0.040                      | -0.1764 |
| 0.060                       | -0.4313 | 0.060                    | -0.3827 | 0.060                      | -0.2924 |
| 0.080                       | -0.5373 | 0.080                    | -0.4449 | 0.080                      | -0.3365 |
| 0.100                       | -0.6905 | 0.100                    | -0.4765 | 0.100                      | -0.3785 |
| 0.125                       | -0.4894 | 0.125                    | -0.4948 | 0.125                      | -0.4712 |
| 0.150                       | -0.6267 | 0.150                    | -0.5304 | 0.150                      | -0.4621 |
| 0.175                       | -0.6335 | 0.175                    | -0.5877 | 0.175                      | -0.5155 |
| 0.200                       | -0.7215 | 0.200                    | -0.6286 | 0.200                      | -0.5599 |
| 0.250                       | -0.8098 | 0.250                    | -0.7427 | 0.250                      | -0.6394 |
| 0.300                       | -0.8906 | 0.300                    | -0.8090 | 0.300                      | -0.6829 |
| 0.350                       | -0.8719 | 0.350                    | -0.8754 | 0.350                      | -0.7873 |
| 0.400                       | -0.8871 | 0.400                    | -0.9397 | 0.400                      | -0.8323 |
| 0.450                       | -0.9487 | 0.450                    | -0.9748 | 0.450                      | -0.8796 |
| 0.500                       | -1.0384 | 0.500                    | -1.0285 | 0.500                      | -0.9253 |
| 0.550                       | -0.5807 | 0.550                    | -0.6531 | 0.550                      | -0.8519 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3205 | 0.005 | 0.3083  | 0.005 | 0.2378  |
| 0.010 | 0.0419 | 0.010 | -0.0360 | 0.010 | -0.1809 |

Fight 17 Test point 26

Sweep, deg = 20.0 Mach = 0.81 hp, ft = 20500. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 433.3 Rnpu = 3337000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9888  | 0.000                    | 1.0203  | 0.000                      | 1.0119  |
| 0.005                       | 0.2172  | 0.005                    | 0.2758  | 0.005                      | 0.5144  |
| 0.010                       | -0.0548 | 0.010                    | 0.0096  | 0.010                      | 0.2323  |
| 0.020                       | -0.3106 | 0.020                    | -0.2573 | 0.020                      | -0.1295 |
| 0.040                       | -0.5755 | 0.040                    | -0.4567 | 0.040                      | -0.3198 |
| 0.060                       | -0.5155 | 0.060                    | -0.5224 | 0.060                      | -0.4343 |
| 0.080                       | -0.5962 | 0.080                    | -0.5809 | 0.080                      | -0.4520 |
| 0.100                       | -0.7535 | 0.100                    | -0.6213 | 0.100                      | -0.4605 |
| 0.125                       | -0.6886 | 0.125                    | -0.6307 | 0.125                      | -0.5305 |
| 0.150                       | -0.7414 | 0.150                    | -0.6348 | 0.150                      | -0.6888 |
| 0.175                       | -0.7584 | 0.175                    | -0.6876 | 0.175                      | -0.6571 |
| 0.200                       | -0.8030 | 0.200                    | -0.7126 | 0.200                      | -0.6385 |
| 0.250                       | -0.9156 | 0.250                    | -0.8250 | 0.250                      | -0.7139 |
| 0.300                       | -0.9886 | 0.300                    | -0.8913 | 0.300                      | -0.7694 |
| 0.350                       | -0.9950 | 0.350                    | -0.9467 | 0.350                      | -0.8662 |
| 0.400                       | -1.0013 | 0.400                    | -1.0198 | 0.400                      | -0.9140 |
| 0.450                       | -1.0156 | 0.450                    | -1.0473 | 0.450                      | -0.9654 |
| 0.500                       | -1.0306 | 0.500                    | -1.0726 | 0.500                      | -0.9812 |
| 0.550                       | -0.4615 | 0.550                    | -0.4544 | 0.550                      | -0.7997 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4700 | 0.005 | 0.4556 | 0.005 | 0.3930 |
| 0.010 | 0.2116 | 0.010 | 0.1396 | 0.010 | 0.0109 |

Fight 17 Test point 27

Sweep, deg = 20.0 Mach = 0.81 hp, ft = 20600. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = 4.4 QBAR, lb/ft<sup>2</sup> = 1.9 R<sub>npu</sub> = 2692000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | -0.5924 | 0.000                    | 0.6037  | 0.000                      | 2.6640  |
| 0.005                       | -0.9192 | 0.005                    | 0.0955  | 0.005                      | 1.5144  |
| 0.010                       | -0.6419 | 0.010                    | 1.8518  | 0.010                      | 0.7734  |
| 0.020                       | -1.1378 | 0.020                    | 0.6007  | 0.020                      | 1.8106  |
| 0.040                       | 0.0889  | 0.040                    | -0.8354 | 0.040                      | 0.7426  |
| 0.060                       | -0.9388 | 0.060                    | 0.6014  | 0.060                      | 1.1690  |
| 0.080                       | -0.9645 | 0.080                    | 2.5533  | 0.080                      | 1.2364  |
| 0.100                       | 0.5673  | 0.100                    | -0.0835 | 0.100                      | 1.4503  |
| 0.125                       | 0.3315  | 0.125                    | 0.6079  | 0.125                      | 1.5963  |
| 0.150                       | 1.3353  | 0.150                    | 0.5898  | 0.150                      | -0.0277 |
| 0.175                       | -0.5920 | 0.175                    | 1.6405  | 0.175                      | 1.4708  |
| 0.200                       | -0.2462 | 0.200                    | 0.7324  | 0.200                      | 0.7542  |
| 0.250                       | -0.8274 | 0.250                    | -0.7797 | 0.250                      | 1.4865  |
| 0.300                       | 0.9125  | 0.300                    | -0.5858 | 0.300                      | 1.2024  |
| 0.350                       | 1.1620  | 0.350                    | 2.1523  | 0.350                      | 1.1863  |
| 0.400                       | -0.4844 | 0.400                    | 0.4811  | 0.400                      | -0.3449 |
| 0.450                       | -0.1246 | 0.450                    | 1.3468  | 0.450                      | 1.5700  |
| 0.500                       | -1.0031 | 0.500                    | -0.2695 | 0.500                      | 1.3369  |
| 0.550                       | 0.3786  | 0.550                    | -0.2164 | 0.550                      | 0.5713  |

Lower surface

|       |         |       |        |       |        |
|-------|---------|-------|--------|-------|--------|
| 0.005 | -1.0164 | 0.005 | 3.1129 | 0.005 | 2.1800 |
| 0.010 | -0.7472 | 0.010 | 1.7979 | 0.010 | 0.9402 |

Fight 18 Test point 1

Sweep, deg = 24.9 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 438.9 Rrho = 3387000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9091  | 0.000                    | 0.9438  | 0.000                      | 0.9253  |
| 0.005                       | 0.3505  | 0.005                    | 0.3954  | 0.005                      | 0.5901  |
| 0.010                       | 0.1013  | 0.010                    | 0.1566  | 0.010                      | 0.3458  |
| 0.020                       | -0.1432 | 0.020                    | -0.0980 | 0.020                      | 0.0173  |
| 0.040                       | -0.3515 | 0.040                    | -0.2839 | 0.040                      | -0.1770 |
| 0.060                       | -0.4158 | 0.060                    | -0.3561 | 0.060                      | -0.2922 |
| 0.080                       | -0.4778 | 0.080                    | -0.4039 | 0.080                      | -0.3429 |
| 0.100                       | -0.5170 | 0.100                    | -0.4397 | 0.100                      | -0.3711 |
| 0.125                       | -0.4916 | 0.125                    | -0.4681 | 0.125                      | -0.3892 |
| 0.150                       | -0.5926 | 0.150                    | -0.5173 | 0.150                      | -0.4470 |
| 0.175                       | -0.6025 | 0.175                    | -0.5709 | 0.175                      | -0.5295 |
| 0.200                       | -0.6678 | 0.200                    | -0.5900 | 0.200                      | -0.5531 |
| 0.250                       | -0.7565 | 0.250                    | -0.7131 | 0.250                      | -0.5916 |
| 0.300                       | -0.8249 | 0.300                    | -0.7848 | 0.300                      | -0.6533 |
| 0.350                       | -0.8188 | 0.350                    | -0.8384 | 0.350                      | -0.7467 |
| 0.400                       | -0.7732 | 0.400                    | -0.9033 | 0.400                      | -0.8050 |
| 0.450                       | -0.7342 | 0.450                    | -0.9260 | 0.450                      | -0.8515 |
| 0.500                       | -0.8159 | 0.500                    | -0.9565 | 0.500                      | -0.8772 |
| 0.550                       | -0.4212 | 0.550                    | -0.7418 | 0.550                      | -0.6418 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2347  | 0.005 | 0.2379  | 0.005 | 0.1659  |
| 0.010 | -0.0346 | 0.010 | -0.0989 | 0.010 | -0.2426 |



Fight 18 Test point 2

Sweep, deg = 24.9 Mach = 0.80 hp, ft = 20200. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 435.9 Rnpu = 3367000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9176  | 0.000                    | 0.9510  | 0.000                      | 0.9356  |
| 0.005                       | 0.2464  | 0.005                    | 0.2945  | 0.005                      | 0.5137  |
| 0.010                       | -0.0081 | 0.010                    | 0.0468  | 0.010                      | 0.2482  |
| 0.020                       | -0.2527 | 0.020                    | -0.2056 | 0.020                      | -0.0887 |
| 0.040                       | -0.4613 | 0.040                    | -0.3891 | 0.040                      | -0.2744 |
| 0.060                       | -0.4976 | 0.060                    | -0.4576 | 0.060                      | -0.3849 |
| 0.080                       | -0.5623 | 0.080                    | -0.4991 | 0.080                      | -0.4271 |
| 0.100                       | -0.6194 | 0.100                    | -0.5180 | 0.100                      | -0.4548 |
| 0.125                       | -0.5774 | 0.125                    | -0.5181 | 0.125                      | -0.4701 |
| 0.150                       | -0.6726 | 0.150                    | -0.5869 | 0.150                      | -0.4809 |
| 0.175                       | -0.6886 | 0.175                    | -0.6360 | 0.175                      | -0.5646 |
| 0.200                       | -0.7449 | 0.200                    | -0.6634 | 0.200                      | -0.6071 |
| 0.250                       | -0.8210 | 0.250                    | -0.7707 | 0.250                      | -0.6981 |
| 0.300                       | -0.8943 | 0.300                    | -0.8348 | 0.300                      | -0.7331 |
| 0.350                       | -0.8967 | 0.350                    | -0.8866 | 0.350                      | -0.8055 |
| 0.400                       | -0.9052 | 0.400                    | -0.9567 | 0.400                      | -0.8627 |
| 0.450                       | -0.9046 | 0.450                    | -0.9901 | 0.450                      | -0.9073 |
| 0.500                       | -0.8064 | 0.500                    | -1.0347 | 0.500                      | -0.9313 |
| 0.550                       | -0.4690 | 0.550                    | -0.5899 | 0.550                      | -0.7557 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3443 | 0.005 | 0.3455 | 0.005 | 0.2790  |
| 0.010 | 0.0857 | 0.010 | 0.0291 | 0.010 | -0.1008 |

Fight 18 Test point 3

Sweep, deg = 30.0 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 437.0 Rnpu = 3380000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8124  | 0.000                    | 0.8477  | 0.000                      | 0.8365  |
| 0.005                       | 0.2399  | 0.005                    | 0.2728  | 0.005                      | 0.4678  |
| 0.010                       | 0.0059  | 0.010                    | 0.0486  | 0.010                      | 0.2284  |
| 0.020                       | -0.2130 | 0.020                    | -0.1868 | 0.020                      | -0.0789 |
| 0.040                       | -0.3912 | 0.040                    | -0.3267 | 0.040                      | -0.2510 |
| 0.060                       | -0.4523 | 0.060                    | -0.4002 | 0.060                      | -0.3379 |
| 0.080                       | -0.4929 | 0.080                    | -0.4490 | 0.080                      | -0.3852 |
| 0.100                       | -0.5407 | 0.100                    | -0.4778 | 0.100                      | -0.4093 |
| 0.125                       | -0.5037 | 0.125                    | -0.4850 | 0.125                      | -0.4288 |
| 0.150                       | -0.5528 | 0.150                    | -0.5281 | 0.150                      | -0.4832 |
| 0.175                       | -0.5441 | 0.175                    | -0.5762 | 0.175                      | -0.5625 |
| 0.200                       | -0.6373 | 0.200                    | -0.6043 | 0.200                      | -0.5461 |
| 0.250                       | -0.7050 | 0.250                    | -0.7154 | 0.250                      | -0.6057 |
| 0.300                       | -0.7384 | 0.300                    | -0.7660 | 0.300                      | -0.6564 |
| 0.350                       | -0.7118 | 0.350                    | -0.7866 | 0.350                      | -0.7118 |
| 0.400                       | -0.7010 | 0.400                    | -0.8315 | 0.400                      | -0.7463 |
| 0.450                       | -0.6683 | 0.450                    | -0.5954 | 0.450                      | -0.4438 |
| 0.500                       | -0.4497 | 0.500                    | -0.4646 | 0.500                      | -0.4329 |
| 0.550                       | -0.4060 | 0.550                    | -0.4791 | 0.550                      | -0.4300 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2288  | 0.005 | 0.2425  | 0.005 | 0.1851  |
| 0.010 | -0.0142 | 0.010 | -0.0560 | 0.010 | -0.1724 |

Flight 18 Test point 4

Sweep, deg = 30.0 Mach = 0.81 hp, ft = 20300. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 435.7 Rnpu = 3365000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8134  | 0.000                    | 0.8475  | 0.000                      | 0.8338  |
| 0.005                       | 0.3085  | 0.005                    | 0.3367  | 0.005                      | 0.5215  |
| 0.010                       | 0.0793  | 0.010                    | 0.1247  | 0.010                      | 0.2977  |
| 0.020                       | -0.1427 | 0.020                    | -0.1176 | 0.020                      | 0.0006  |
| 0.040                       | -0.3289 | 0.040                    | -0.2752 | 0.040                      | -0.1777 |
| 0.060                       | -0.3960 | 0.060                    | -0.3476 | 0.060                      | -0.2824 |
| 0.080                       | -0.4393 | 0.080                    | -0.3974 | 0.080                      | -0.3346 |
| 0.100                       | -0.4734 | 0.100                    | -0.4271 | 0.100                      | -0.3811 |
| 0.125                       | -0.4485 | 0.125                    | -0.4454 | 0.125                      | -0.3875 |
| 0.150                       | -0.5393 | 0.150                    | -0.4918 | 0.150                      | -0.4461 |
| 0.175                       | -0.5410 | 0.175                    | -0.5350 | 0.175                      | -0.4958 |
| 0.200                       | -0.6132 | 0.200                    | -0.5669 | 0.200                      | -0.4737 |
| 0.250                       | -0.6616 | 0.250                    | -0.6753 | 0.250                      | -0.5714 |
| 0.300                       | -0.6906 | 0.300                    | -0.7244 | 0.300                      | -0.6079 |
| 0.350                       | -0.6730 | 0.350                    | -0.7433 | 0.350                      | -0.6771 |
| 0.400                       | -0.6690 | 0.400                    | -0.7723 | 0.400                      | -0.6955 |
| 0.450                       | -0.6342 | 0.450                    | -0.5338 | 0.450                      | -0.4564 |
| 0.500                       | -0.4462 | 0.500                    | -0.4853 | 0.500                      | -0.4354 |
| 0.550                       | -0.4022 | 0.550                    | -0.4815 | 0.550                      | -0.4232 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.1750  | 0.005 | 0.1853  | 0.005 | 0.1160  |
| 0.010 | -0.0734 | 0.010 | -0.1240 | 0.010 | -0.2511 |

Fight 18 Test point 5

Sweep, deg = 30.0 Mach = 0.81 hp, ft = 20200. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 436.8 Rnpu = 3377000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8141  | 0.000                    | 0.8454  | 0.000                      | 0.8364  |
| 0.005                       | 0.1730  | 0.005                    | 0.2033  | 0.005                      | 0.4114  |
| 0.010                       | -0.0648 | 0.010                    | -0.0275 | 0.010                      | 0.1607  |
| 0.020                       | -0.2868 | 0.020                    | -0.2598 | 0.020                      | -0.1528 |
| 0.040                       | -0.4624 | 0.040                    | -0.3976 | 0.040                      | -0.3202 |
| 0.060                       | -0.5191 | 0.060                    | -0.4681 | 0.060                      | -0.4175 |
| 0.080                       | -0.5374 | 0.080                    | -0.5143 | 0.080                      | -0.4427 |
| 0.100                       | -0.5902 | 0.100                    | -0.5323 | 0.100                      | -0.4621 |
| 0.125                       | -0.5503 | 0.125                    | -0.5501 | 0.125                      | -0.4896 |
| 0.150                       | -0.6387 | 0.150                    | -0.5850 | 0.150                      | -0.5100 |
| 0.175                       | -0.6453 | 0.175                    | -0.6286 | 0.175                      | -0.5912 |
| 0.200                       | -0.6945 | 0.200                    | -0.6284 | 0.200                      | -0.6237 |
| 0.250                       | -0.7682 | 0.250                    | -0.7490 | 0.250                      | -0.6509 |
| 0.300                       | -0.7141 | 0.300                    | -0.8011 | 0.300                      | -0.6829 |
| 0.350                       | -0.7319 | 0.350                    | -0.8423 | 0.350                      | -0.7717 |
| 0.400                       | -0.7360 | 0.400                    | -0.8735 | 0.400                      | -0.8085 |
| 0.450                       | -0.7347 | 0.450                    | -0.8625 | 0.450                      | -0.8394 |
| 0.500                       | -0.5971 | 0.500                    | -0.5950 | 0.500                      | -0.3800 |
| 0.550                       | -0.3977 | 0.550                    | -0.4307 | 0.550                      | -0.3897 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.2967 | 0.005 | 0.3108 | 0.005 | 0.2600  |
| 0.010 | 0.0624 | 0.010 | 0.0259 | 0.010 | -0.0794 |

Fight 18 Test point 6

Sweep, deg = 34.9 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 438.1 Rnpu = 3390000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7216  | 0.000                    | 0.7481  | 0.000                      | 0.7454  |
| 0.005                       | 0.1131  | 0.005                    | 0.1211  | 0.005                      | 0.3254  |
| 0.010                       | -0.1050 | 0.010                    | -0.0843 | 0.010                      | 0.0924  |
| 0.020                       | -0.3047 | 0.020                    | -0.3013 | 0.020                      | -0.1885 |
| 0.040                       | -0.4533 | 0.040                    | -0.4190 | 0.040                      | -0.3308 |
| 0.060                       | -0.4865 | 0.060                    | -0.4644 | 0.060                      | -0.4095 |
| 0.080                       | -0.5165 | 0.080                    | -0.5014 | 0.080                      | -0.4368 |
| 0.100                       | -0.5580 | 0.100                    | -0.5101 | 0.100                      | -0.4469 |
| 0.125                       | -0.4930 | 0.125                    | -0.5203 | 0.125                      | -0.4521 |
| 0.150                       | -0.5724 | 0.150                    | -0.5472 | 0.150                      | -0.5083 |
| 0.175                       | -0.5661 | 0.175                    | -0.5818 | 0.175                      | -0.5300 |
| 0.200                       | -0.6271 | 0.200                    | -0.6020 | 0.200                      | -0.4987 |
| 0.250                       | -0.6504 | 0.250                    | -0.6838 | 0.250                      | -0.5527 |
| 0.300                       | -0.6563 | 0.300                    | -0.7031 | 0.300                      | -0.6013 |
| 0.350                       | -0.6457 | 0.350                    | -0.6573 | 0.350                      | -0.6026 |
| 0.400                       | -0.6144 | 0.400                    | -0.5181 | 0.400                      | -0.4985 |
| 0.450                       | -0.4591 | 0.450                    | -0.5140 | 0.450                      | -0.4851 |
| 0.500                       | -0.4453 | 0.500                    | -0.4947 | 0.500                      | -0.4269 |
| 0.550                       | -0.3936 | 0.550                    | -0.4687 | 0.550                      | -0.4182 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.2655 | 0.005 | 0.2937 | 0.005 | 0.2428  |
| 0.010 | 0.0534 | 0.010 | 0.0400 | 0.010 | -0.0460 |

Fight 18 Test point 7

Sweep, deg = 34.9 Mach = 0.80 hp, ft = 20200. Angle of attack, deg = -0.1  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 427.0 Rnpu = 3329000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7141  | 0.000                    | 0.7496  | 0.000                      | 0.7378  |
| 0.005                       | 0.2567  | 0.005                    | 0.2752  | 0.005                      | 0.4574  |
| 0.010                       | 0.0465  | 0.010                    | 0.0821  | 0.010                      | 0.2529  |
| 0.020                       | -0.1501 | 0.020                    | -0.1376 | 0.020                      | -0.0162 |
| 0.040                       | -0.3092 | 0.040                    | -0.2691 | 0.040                      | -0.1732 |
| 0.060                       | -0.3630 | 0.060                    | -0.3300 | 0.060                      | -0.2587 |
| 0.080                       | -0.4021 | 0.080                    | -0.3694 | 0.080                      | -0.3008 |
| 0.100                       | -0.4240 | 0.100                    | -0.3906 | 0.100                      | -0.3229 |
| 0.125                       | -0.4054 | 0.125                    | -0.4066 | 0.125                      | -0.3444 |
| 0.150                       | -0.4789 | 0.150                    | -0.4408 | 0.150                      | -0.3741 |
| 0.175                       | -0.4798 | 0.175                    | -0.4740 | 0.175                      | -0.4023 |
| 0.200                       | -0.5180 | 0.200                    | -0.4946 | 0.200                      | -0.4054 |
| 0.250                       | -0.5561 | 0.250                    | -0.5566 | 0.250                      | -0.4655 |
| 0.300                       | -0.5645 | 0.300                    | -0.5483 | 0.300                      | -0.4705 |
| 0.350                       | -0.5488 | 0.350                    | -0.5246 | 0.350                      | -0.4828 |
| 0.400                       | -0.4937 | 0.400                    | -0.5130 | 0.400                      | -0.4668 |
| 0.450                       | -0.4396 | 0.450                    | -0.4775 | 0.450                      | -0.4421 |
| 0.500                       | -0.4238 | 0.500                    | -0.4533 | 0.500                      | -0.4027 |
| 0.550                       | -0.3750 | 0.550                    | -0.4458 | 0.550                      | -0.4026 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.1186  | 0.005 | 0.1403  | 0.005 | 0.0694  |
| 0.010 | -0.1090 | 0.010 | -0.1412 | 0.010 | -0.2633 |

Fight 18 Test point 8

Sweep, deg = 34.3 Mach = 0.80 hp, ft = 19900. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.3 QBR, lb/ft<sup>2</sup> = 440.1 R<sub>pu</sub> = 3394000.

Upper surface

| BL 200.8<br>Inboard station |                | BL 260<br>Middle station |                | BL 320<br>Outboard station |                |
|-----------------------------|----------------|--------------------------|----------------|----------------------------|----------------|
| x/c                         | C <sub>p</sub> | x/c                      | C <sub>p</sub> | x/c                        | C <sub>p</sub> |
| 0.000                       | 0.7193         | 0.000                    | 0.7453         | 0.000                      | 0.7390         |
| 0.005                       | 0.0950         | 0.005                    | 0.1023         | 0.005                      | 0.3074         |
| 0.010                       | -0.1236        | 0.010                    | -0.1039        | 0.010                      | 0.0747         |
| 0.020                       | -0.3203        | 0.020                    | -0.3203        | 0.020                      | -0.2107        |
| 0.040                       | -0.4700        | 0.040                    | -0.4374        | 0.040                      | -0.3530        |
| 0.060                       | -0.5225        | 0.060                    | -0.4840        | 0.060                      | -0.4287        |
| 0.080                       | -0.5420        | 0.080                    | -0.5118        | 0.080                      | -0.4498        |
| 0.100                       | -0.5659        | 0.100                    | -0.5228        | 0.100                      | -0.4628        |
| 0.125                       | -0.5176        | 0.125                    | -0.5487        | 0.125                      | -0.4653        |
| 0.150                       | -0.5699        | 0.150                    | -0.5618        | 0.150                      | -0.5190        |
| 0.175                       | -0.5748        | 0.175                    | -0.5945        | 0.175                      | -0.5898        |
| 0.200                       | -0.6325        | 0.200                    | -0.6107        | 0.200                      | -0.4929        |
| 0.250                       | -0.6084        | 0.250                    | -0.6938        | 0.250                      | -0.5341        |
| 0.300                       | -0.6629        | 0.300                    | -0.7189        | 0.300                      | -0.5894        |
| 0.350                       | -0.6476        | 0.350                    | -0.7021        | 0.350                      | -0.6505        |
| 0.400                       | -0.6334        | 0.400                    | -0.5015        | 0.400                      | -0.4897        |
| 0.450                       | -0.4639        | 0.450                    | -0.5059        | 0.450                      | -0.4866        |
| 0.500                       | -0.4448        | 0.500                    | -0.4913        | 0.500                      | -0.4310        |
| 0.550                       | -0.3950        | 0.550                    | -0.4720        | 0.550                      | -0.4198        |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.2793 | 0.005 | 0.3078 | 0.005 | 0.2612  |
| 0.010 | 0.0711 | 0.010 | 0.0571 | 0.010 | -0.0256 |

Fight 18 Test point 9

Sweep, deg = 34.9 Mach = 0.93 hp, ft = 20000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 484.0 R<sub>pu</sub> = 3493000.

Upper surface

| BL 200.8<br>Inboard station |                | BL 260<br>Middle station |                | BL 320<br>Outboard station |                |
|-----------------------------|----------------|--------------------------|----------------|----------------------------|----------------|
| x/c                         | C <sub>p</sub> | x/c                      | C <sub>p</sub> | x/c                        | C <sub>p</sub> |
| 0.000                       | 0.7257         | 0.000                    | 0.7537         | 0.000                      | 0.7461         |
| 0.005                       | 0.2045         | 0.005                    | 0.2155         | 0.005                      | 0.3942         |
| 0.010                       | -0.0086        | 0.010                    | 0.0183         | 0.010                      | 0.1781         |
| 0.020                       | -0.2076        | 0.020                    | -0.2029        | 0.020                      | -0.1000        |
| 0.040                       | -0.3877        | 0.040                    | -0.3350        | 0.040                      | -0.2585        |
| 0.060                       | -0.4122        | 0.060                    | -0.3934        | 0.060                      | -0.3456        |
| 0.080                       | -0.4504        | 0.080                    | -0.4345        | 0.080                      | -0.3824        |
| 0.100                       | -0.4968        | 0.100                    | -0.4536        | 0.100                      | -0.4014        |
| 0.125                       | -0.4635        | 0.125                    | -0.4826        | 0.125                      | -0.4171        |
| 0.150                       | -0.5176        | 0.150                    | -0.5007        | 0.150                      | -0.4602        |
| 0.175                       | -0.5303        | 0.175                    | -0.5421        | 0.175                      | -0.5420        |
| 0.200                       | -0.5910        | 0.200                    | -0.5671        | 0.200                      | -0.5284        |
| 0.250                       | -0.6503        | 0.250                    | -0.6671        | 0.250                      | -0.5603        |
| 0.300                       | -0.6645        | 0.300                    | -0.7008        | 0.300                      | -0.6013        |
| 0.350                       | -0.6517        | 0.350                    | -0.7198        | 0.350                      | -0.6516        |
| 0.400                       | -0.6566        | 0.400                    | -0.7502        | 0.400                      | -0.5450        |
| 0.450                       | -0.6227        | 0.450                    | -0.5215        | 0.450                      | -0.4915        |
| 0.500                       | -0.5326        | 0.500                    | -0.4209        | 0.500                      | -0.3911        |
| 0.550                       | -0.3716        | 0.550                    | -0.4379        | 0.550                      | -0.3934        |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.1988  | 0.005 | 0.2230  | 0.005 | 0.1779  |
| 0.010 | -0.0214 | 0.010 | -0.0449 | 0.010 | -0.1306 |



Fight 18 Test point 10

Sweep, deg = 30.0 Mach = 0.83 hp, ft = 20000. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 464.8 Rnpu = 3502000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8186  | 0.000                    | 0.8502  | 0.000                      | 0.8355  |
| 0.005                       | 0.3193  | 0.005                    | 0.3534  | 0.005                      | 0.5304  |
| 0.010                       | 0.0896  | 0.010                    | 0.1390  | 0.010                      | 0.3084  |
| 0.020                       | -0.1322 | 0.020                    | -0.1020 | 0.020                      | 0.0143  |
| 0.040                       | -0.3223 | 0.040                    | -0.2604 | 0.040                      | -0.1677 |
| 0.060                       | -0.3922 | 0.060                    | -0.3384 | 0.060                      | -0.2776 |
| 0.080                       | -0.4489 | 0.080                    | -0.3891 | 0.080                      | -0.3259 |
| 0.100                       | -0.4773 | 0.100                    | -0.4171 | 0.100                      | -0.3557 |
| 0.125                       | -0.4659 | 0.125                    | -0.4490 | 0.125                      | -0.3791 |
| 0.150                       | -0.5491 | 0.150                    | -0.4818 | 0.150                      | -0.4310 |
| 0.175                       | -0.5628 | 0.175                    | -0.5249 | 0.175                      | -0.5142 |
| 0.200                       | -0.6108 | 0.200                    | -0.5542 | 0.200                      | -0.5399 |
| 0.250                       | -0.6942 | 0.250                    | -0.6744 | 0.250                      | -0.5522 |
| 0.300                       | -0.6385 | 0.300                    | -0.7288 | 0.300                      | -0.6275 |
| 0.350                       | -0.6807 | 0.350                    | -0.7677 | 0.350                      | -0.7056 |
| 0.400                       | -0.6999 | 0.400                    | -0.8169 | 0.400                      | -0.7576 |
| 0.450                       | -0.7129 | 0.450                    | -0.7941 | 0.450                      | -0.8013 |
| 0.500                       | -0.7724 | 0.500                    | -0.8440 | 0.500                      | -0.8304 |
| 0.550                       | -0.6176 | 0.550                    | -0.7487 | 0.550                      | -0.5283 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.1904  | 0.005 | 0.1972  | 0.005 | 0.1286  |
| 0.010 | -0.0575 | 0.010 | -0.1077 | 0.010 | -0.2409 |

Fight 18 Test point 11

Sweep, deg = 25.1 Mach = 0.81 hp, ft = 24000. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 370.7 Rnpu = 2931000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9060  | 0.000                    | 0.9425  | 0.000                      | 0.9275  |
| 0.005                       | 0.2965  | 0.005                    | 0.3371  | 0.005                      | 0.5454  |
| 0.010                       | 0.0444  | 0.010                    | 0.0989  | 0.010                      | 0.2885  |
| 0.020                       | -0.1957 | 0.020                    | -0.1554 | 0.020                      | -0.0400 |
| 0.040                       | -0.4031 | 0.040                    | -0.3410 | 0.040                      | -0.2292 |
| 0.060                       | -0.4821 | 0.060                    | -0.4088 | 0.060                      | -0.3456 |
| 0.080                       | -0.5073 | 0.080                    | -0.4605 | 0.080                      | -0.3873 |
| 0.100                       | -0.5492 | 0.100                    | -0.4847 | 0.100                      | -0.4136 |
| 0.125                       | -0.5343 | 0.125                    | -0.5020 | 0.125                      | -0.4333 |
| 0.150                       | -0.6284 | 0.150                    | -0.5406 | 0.150                      | -0.4876 |
| 0.175                       | -0.6359 | 0.175                    | -0.6020 | 0.175                      | -0.5568 |
| 0.200                       | -0.7072 | 0.200                    | -0.6303 | 0.200                      | -0.5906 |
| 0.250                       | -0.7847 | 0.250                    | -0.7376 | 0.250                      | -0.6584 |
| 0.300                       | -0.8661 | 0.300                    | -0.8026 | 0.300                      | -0.6921 |
| 0.350                       | -0.8529 | 0.350                    | -0.8645 | 0.350                      | -0.7685 |
| 0.400                       | -0.8483 | 0.400                    | -0.9271 | 0.400                      | -0.8240 |
| 0.450                       | -0.7229 | 0.450                    | -0.9487 | 0.450                      | -0.8725 |
| 0.500                       | -0.8117 | 0.500                    | -0.9907 | 0.500                      | -0.8991 |
| 0.550                       | -0.4286 | 0.550                    | -0.6921 | 0.550                      | -0.6497 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2860 | 0.005 | 0.2959  | 0.005 | 0.2275  |
| 0.010 | 0.0242 | 0.010 | -0.0310 | 0.010 | -0.1612 |

Fight 18 Test point 12

Sweep, deg = 25.1 Mach = 0.81 hp, ft = 28000. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 311.9 Rnpu = 2539000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9064  | 0.000                    | 0.9463  | 0.000                      | 0.9349  |
| 0.005                       | 0.2272  | 0.005                    | 0.2681  | 0.005                      | 0.4912  |
| 0.010                       | -0.0275 | 0.010                    | 0.0239  | 0.010                      | 0.2223  |
| 0.020                       | -0.2703 | 0.020                    | -0.2292 | 0.020                      | -0.1136 |
| 0.040                       | -0.4800 | 0.040                    | -0.4170 | 0.040                      | -0.2954 |
| 0.060                       | -0.5281 | 0.060                    | -0.4793 | 0.060                      | -0.4140 |
| 0.080                       | -0.6027 | 0.080                    | -0.5278 | 0.080                      | -0.4567 |
| 0.100                       | -0.6249 | 0.100                    | -0.5523 | 0.100                      | -0.4714 |
| 0.125                       | -0.5797 | 0.125                    | -0.5424 | 0.125                      | -0.4927 |
| 0.150                       | -0.6748 | 0.150                    | -0.5963 | 0.150                      | -0.5259 |
| 0.175                       | -0.6704 | 0.175                    | -0.6335 | 0.175                      | -0.5613 |
| 0.200                       | -0.7480 | 0.200                    | -0.6678 | 0.200                      | -0.6153 |
| 0.250                       | -0.8265 | 0.250                    | -0.7807 | 0.250                      | -0.7136 |
| 0.300                       | -0.8984 | 0.300                    | -0.8356 | 0.300                      | -0.7244 |
| 0.350                       | -0.9000 | 0.350                    | -0.8869 | 0.350                      | -0.8140 |
| 0.400                       | -0.9084 | 0.400                    | -0.9652 | 0.400                      | -0.8683 |
| 0.450                       | -0.9042 | 0.450                    | -0.9952 | 0.450                      | -0.9117 |
| 0.500                       | -0.8062 | 0.500                    | -1.0418 | 0.500                      | -0.9405 |
| 0.550                       | -0.4510 | 0.550                    | -0.5546 | 0.550                      | -0.6496 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3573 | 0.005 | 0.3663 | 0.005 | 0.3055  |
| 0.010 | 0.1039 | 0.010 | 0.0578 | 0.010 | -0.0659 |

Flight 18 Test point 13

Sweep, deg = 25.2 Mach = 0.81 hp, ft = 29900. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 287.0 Rnpu = 2371000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9078  | 0.000                    | 0.9508  | 0.000                      | 0.9390  |
| 0.005                       | 0.1774  | 0.005                    | 0.2203  | 0.005                      | 0.4482  |
| 0.010                       | -0.0775 | 0.010                    | -0.0264 | 0.010                      | 0.1755  |
| 0.020                       | -0.3185 | 0.020                    | -0.2825 | 0.020                      | -0.1642 |
| 0.040                       | -0.5396 | 0.040                    | -0.4697 | 0.040                      | -0.3481 |
| 0.060                       | -0.5900 | 0.060                    | -0.5226 | 0.060                      | -0.4582 |
| 0.080                       | -0.6478 | 0.080                    | -0.5733 | 0.080                      | -0.5261 |
| 0.100                       | -0.6480 | 0.100                    | -0.6054 | 0.100                      | -0.5036 |
| 0.125                       | -0.6107 | 0.125                    | -0.6064 | 0.125                      | -0.5072 |
| 0.150                       | -0.7009 | 0.150                    | -0.6257 | 0.150                      | -0.5832 |
| 0.175                       | -0.7131 | 0.175                    | -0.6720 | 0.175                      | -0.5794 |
| 0.200                       | -0.7787 | 0.200                    | -0.7020 | 0.200                      | -0.6317 |
| 0.250                       | -0.8659 | 0.250                    | -0.8106 | 0.250                      | -0.7372 |
| 0.300                       | -0.9196 | 0.300                    | -0.8676 | 0.300                      | -0.7711 |
| 0.350                       | -0.9129 | 0.350                    | -0.9097 | 0.350                      | -0.8400 |
| 0.400                       | -0.9360 | 0.400                    | -0.9846 | 0.400                      | -0.8849 |
| 0.450                       | -0.9443 | 0.450                    | -1.0108 | 0.450                      | -0.9425 |
| 0.500                       | -1.0072 | 0.500                    | -1.0627 | 0.500                      | -0.9726 |
| 0.550                       | -0.4512 | 0.550                    | -0.5013 | 0.550                      | -0.5092 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4037 | 0.005 | 0.4201 | 0.005 | 0.3624 |
| 0.010 | 0.1584 | 0.010 | 0.1142 | 0.010 | 0.0003 |

Fight 18 Test point 14

Sweep, deg = 30.1 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 2.8  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 225.6 Rrho = 1947000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7653  | 0.000                    | 0.7883  | 0.000                      | 0.7872  |
| 0.005                       | -0.1591 | 0.005                    | -0.1562 | 0.005                      | 0.0906  |
| 0.010                       | -0.4032 | 0.010                    | -0.3904 | 0.010                      | -0.2102 |
| 0.020                       | -0.6168 | 0.020                    | -0.6113 | 0.020                      | -0.5505 |
| 0.040                       | -0.7676 | 0.040                    | -0.7874 | 0.040                      | -0.6783 |
| 0.060                       | -0.8504 | 0.060                    | -0.8109 | 0.060                      | -0.7621 |
| 0.080                       | -0.8411 | 0.080                    | -0.8169 | 0.080                      | -0.8182 |
| 0.100                       | -0.8525 | 0.100                    | -0.8407 | 0.100                      | -0.8164 |
| 0.125                       | -0.7541 | 0.125                    | -0.8363 | 0.125                      | -0.8115 |
| 0.150                       | -0.8452 | 0.150                    | -0.8394 | 0.150                      | -0.7871 |
| 0.175                       | -0.8305 | 0.175                    | -0.8647 | 0.175                      | -0.8099 |
| 0.200                       | -0.8906 | 0.200                    | -0.8650 | 0.200                      | -0.7857 |
| 0.250                       | -0.9549 | 0.250                    | -0.9400 | 0.250                      | -0.8611 |
| 0.300                       | -1.0053 | 0.300                    | -0.9843 | 0.300                      | -0.8844 |
| 0.350                       | -0.9857 | 0.350                    | -1.0015 | 0.350                      | -0.9458 |
| 0.400                       | -0.9856 | 0.400                    | -1.0735 | 0.400                      | -0.9840 |
| 0.450                       | -0.7852 | 0.450                    | -1.0772 | 0.450                      | -1.0251 |
| 0.500                       | -0.6504 | 0.500                    | -1.0126 | 0.500                      | -0.9780 |
| 0.550                       | -0.3917 | 0.550                    | -0.4788 | 0.550                      | -0.4256 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5405 | 0.005 | 0.5892 | 0.005 | 0.5552 |
| 0.010 | 0.3505 | 0.010 | 0.3540 | 0.010 | 0.2931 |

Fight 18 Test point 15

Sweep, deg = 30.4 Mach = 0.80 hp, ft = 34900. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 224.3 Rnpu = 1943000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8148  | 0.000                    | 0.8540  | 0.000                      | 0.8467  |
| 0.005                       | 0.1671  | 0.005                    | 0.1899  | 0.005                      | 0.4026  |
| 0.010                       | -0.0672 | 0.010                    | -0.0276 | 0.010                      | 0.1481  |
| 0.020                       | -0.2875 | 0.020                    | -0.2809 | 0.020                      | -0.1527 |
| 0.040                       | -0.4572 | 0.040                    | -0.4245 | 0.040                      | -0.3238 |
| 0.060                       | -0.5234 | 0.060                    | -0.4723 | 0.060                      | -0.4207 |
| 0.080                       | -0.5599 | 0.080                    | -0.5080 | 0.080                      | -0.4468 |
| 0.100                       | -0.5444 | 0.100                    | -0.5267 | 0.100                      | -0.4668 |
| 0.125                       | -0.5269 | 0.125                    | -0.5295 | 0.125                      | -0.4757 |
| 0.150                       | -0.6179 | 0.150                    | -0.5848 | 0.150                      | -0.5164 |
| 0.175                       | -0.6438 | 0.175                    | -0.6284 | 0.175                      | -0.6059 |
| 0.200                       | -0.6844 | 0.200                    | -0.6308 | 0.200                      | -0.6234 |
| 0.250                       | -0.7033 | 0.250                    | -0.7471 | 0.250                      | -0.6087 |
| 0.300                       | -0.7473 | 0.300                    | -0.7794 | 0.300                      | -0.6701 |
| 0.350                       | -0.7282 | 0.350                    | -0.8112 | 0.350                      | -0.7355 |
| 0.400                       | -0.7136 | 0.400                    | -0.8686 | 0.400                      | -0.7608 |
| 0.450                       | -0.6358 | 0.450                    | -0.5984 | 0.450                      | -0.4382 |
| 0.500                       | -0.4486 | 0.500                    | -0.4598 | 0.500                      | -0.4194 |
| 0.550                       | -0.3931 | 0.550                    | -0.4593 | 0.550                      | -0.4157 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.2927 | 0.005 | 0.3285 | 0.005 | 0.2785  |
| 0.010 | 0.0606 | 0.010 | 0.0385 | 0.010 | -0.0654 |

Fight 18 Test point 16

Sweep, deg = 30.4 Mach = 0.79 hp, ft = 35500. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 213.2 Rnpu = 1875000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8068  | 0.000                    | 0.8411  | 0.000                      | 0.8336  |
| 0.005                       | 0.0311  | 0.005                    | 0.0424  | 0.005                      | 0.2854  |
| 0.010                       | -0.2062 | 0.010                    | -0.1776 | 0.010                      | 0.0045  |
| 0.020                       | -0.4247 | 0.020                    | -0.4085 | 0.020                      | -0.3071 |
| 0.040                       | -0.6294 | 0.040                    | -0.5698 | 0.040                      | -0.4633 |
| 0.060                       | -0.8060 | 0.060                    | -0.5970 | 0.060                      | -0.5417 |
| 0.080                       | -0.8777 | 0.080                    | -0.6295 | 0.080                      | -0.5997 |
| 0.100                       | -0.8728 | 0.100                    | -0.6333 | 0.100                      | -0.5654 |
| 0.125                       | -0.8033 | 0.125                    | -0.6156 | 0.125                      | -0.5581 |
| 0.150                       | -0.6840 | 0.150                    | -0.6463 | 0.150                      | -0.6065 |
| 0.175                       | -0.7077 | 0.175                    | -0.6969 | 0.175                      | -0.6456 |
| 0.200                       | -0.7770 | 0.200                    | -0.7337 | 0.200                      | -0.6883 |
| 0.250                       | -0.8169 | 0.250                    | -0.8139 | 0.250                      | -0.7455 |
| 0.300                       | -0.7677 | 0.300                    | -0.8513 | 0.300                      | -0.7215 |
| 0.350                       | -0.7584 | 0.350                    | -0.8561 | 0.350                      | -0.7903 |
| 0.400                       | -0.7428 | 0.400                    | -0.8736 | 0.400                      | -0.7620 |
| 0.450                       | -0.5670 | 0.450                    | -0.5095 | 0.450                      | -0.4440 |
| 0.500                       | -0.4637 | 0.500                    | -0.4745 | 0.500                      | -0.4321 |
| 0.550                       | -0.4003 | 0.550                    | -0.4757 | 0.550                      | -0.4237 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3968 | 0.005 | 0.4370 | 0.005 | 0.3989 |
| 0.010 | 0.1781 | 0.010 | 0.1759 | 0.010 | 0.0902 |

Fight 18 Test point 17

Sweep, deg = 24.9 Mach = 0.80 hp, ft = 34900. Angle of attack, deg = 2.3  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 222.8 Rnpu = 1934000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8997  | 0.000                    | 0.9373  | 0.000                      | 0.9337  |
| 0.005                       | 0.0143  | 0.005                    | 0.0501  | 0.005                      | 0.3167  |
| 0.010                       | -0.2481 | 0.010                    | -0.2035 | 0.010                      | 0.0109  |
| 0.020                       | -0.4870 | 0.020                    | -0.4514 | 0.020                      | -0.3420 |
| 0.040                       | -0.6905 | 0.040                    | -0.6382 | 0.040                      | -0.5100 |
| 0.060                       | -0.7364 | 0.060                    | -0.6697 | 0.060                      | -0.6520 |
| 0.080                       | -0.7616 | 0.080                    | -0.7135 | 0.080                      | -0.6138 |
| 0.100                       | -0.7867 | 0.100                    | -0.7442 | 0.100                      | -0.7140 |
| 0.125                       | -0.7328 | 0.125                    | -0.7515 | 0.125                      | -0.6752 |
| 0.150                       | -0.8236 | 0.150                    | -0.7691 | 0.150                      | -0.6611 |
| 0.175                       | -0.8185 | 0.175                    | -0.8018 | 0.175                      | -0.7043 |
| 0.200                       | -0.8863 | 0.200                    | -0.8185 | 0.200                      | -0.7030 |
| 0.250                       | -0.9856 | 0.250                    | -0.9062 | 0.250                      | -0.8145 |
| 0.300                       | -1.0450 | 0.300                    | -0.9536 | 0.300                      | -0.8446 |
| 0.350                       | -1.0215 | 0.350                    | -0.9978 | 0.350                      | -0.9302 |
| 0.400                       | -1.0155 | 0.400                    | -1.0797 | 0.400                      | -0.9695 |
| 0.450                       | -0.9918 | 0.450                    | -1.1001 | 0.450                      | -1.0292 |
| 0.500                       | -1.0524 | 0.500                    | -0.5824 | 0.500                      | -1.0419 |
| 0.550                       | -0.4588 | 0.550                    | -0.4422 | 0.550                      | -0.4587 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5359 | 0.005 | 0.5623 | 0.005 | 0.5095 |
| 0.010 | 0.3113 | 0.010 | 0.2854 | 0.010 | 0.1845 |



Fight 18 Test point 18

Sweep, deg = 25.0 Mach = 0.81 hp, ft = 35500. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 221.5 Rnpu = 1917000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9203  | 0.000                    | 0.9682  | 0.000                      | 0.9556  |
| 0.005                       | 0.2902  | 0.005                    | 0.3300  | 0.005                      | 0.5440  |
| 0.010                       | 0.0381  | 0.010                    | 0.0257  | 0.010                      | 0.2791  |
| 0.020                       | -0.1988 | 0.020                    | -0.1609 | 0.020                      | -0.0472 |
| 0.040                       | -0.4108 | 0.040                    | -0.3457 | 0.040                      | -0.2389 |
| 0.060                       | -0.4880 | 0.060                    | -0.4114 | 0.060                      | -0.3581 |
| 0.080                       | -0.5227 | 0.080                    | -0.4646 | 0.080                      | -0.3938 |
| 0.100                       | -0.5565 | 0.100                    | -0.4989 | 0.100                      | -0.4250 |
| 0.125                       | -0.5447 | 0.125                    | -0.5107 | 0.125                      | -0.4421 |
| 0.150                       | -0.6169 | 0.150                    | -0.5366 | 0.150                      | -0.4811 |
| 0.175                       | -0.6428 | 0.175                    | -0.6081 | 0.175                      | -0.5529 |
| 0.200                       | -0.7222 | 0.200                    | -0.6543 | 0.200                      | -0.5948 |
| 0.250                       | -0.8094 | 0.250                    | -0.7605 | 0.250                      | -0.6697 |
| 0.300                       | -0.8706 | 0.300                    | -0.8075 | 0.300                      | -0.6749 |
| 0.350                       | -0.8623 | 0.350                    | -0.8517 | 0.350                      | -0.7695 |
| 0.400                       | -0.8637 | 0.400                    | -0.9368 | 0.400                      | -0.8187 |
| 0.450                       | -0.8077 | 0.450                    | -0.9533 | 0.450                      | -0.8758 |
| 0.500                       | -0.7908 | 0.500                    | -0.9999 | 0.500                      | -0.8925 |
| 0.550                       | -0.4172 | 0.550                    | -0.6603 | 0.550                      | -0.6452 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3068 | 0.005 | 0.3295 | 0.005 | 0.2708  |
| 0.010 | 0.0500 | 0.010 | 0.0041 | 0.010 | -0.1192 |

Flight 18 Test point 19

Sweep, deg = 24.9 Mach = 0.79 hp, ft = 35100. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 218.7 Rnpu = 1913000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9151  | 0.000                    | 0.9551  | 0.000                      | 0.9503  |
| 0.005                       | 0.1973  | 0.005                    | 0.2308  | 0.005                      | 0.4681  |
| 0.010                       | -0.0631 | 0.010                    | -0.0085 | 0.010                      | 0.1847  |
| 0.020                       | -0.3011 | 0.020                    | -0.2663 | 0.020                      | -0.1489 |
| 0.040                       | -0.5136 | 0.040                    | -0.4539 | 0.040                      | -0.3365 |
| 0.060                       | -0.5632 | 0.060                    | -0.5051 | 0.060                      | -0.4417 |
| 0.080                       | -0.6243 | 0.080                    | -0.5500 | 0.080                      | -0.4763 |
| 0.100                       | -0.6461 | 0.100                    | -0.5730 | 0.100                      | -0.4953 |
| 0.125                       | -0.5999 | 0.125                    | -0.5670 | 0.125                      | -0.5154 |
| 0.150                       | -0.6859 | 0.150                    | -0.6120 | 0.150                      | -0.5299 |
| 0.175                       | -0.6934 | 0.175                    | -0.6713 | 0.175                      | -0.5983 |
| 0.200                       | -0.7677 | 0.200                    | -0.7111 | 0.200                      | -0.6489 |
| 0.250                       | -0.8552 | 0.250                    | -0.8204 | 0.250                      | -0.7342 |
| 0.300                       | -0.9240 | 0.300                    | -0.8583 | 0.300                      | -0.7222 |
| 0.350                       | -0.9042 | 0.350                    | -0.9006 | 0.350                      | -0.8158 |
| 0.400                       | -0.8947 | 0.400                    | -0.9814 | 0.400                      | -0.8665 |
| 0.450                       | -0.7293 | 0.450                    | -0.9949 | 0.450                      | -0.9104 |
| 0.500                       | -0.6238 | 0.500                    | -1.0426 | 0.500                      | -0.9174 |
| 0.550                       | -0.3943 | 0.550                    | -0.5005 | 0.550                      | -0.4326 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3808 | 0.005 | 0.4018 | 0.005 | 0.3466  |
| 0.010 | 0.1298 | 0.010 | 0.0900 | 0.010 | -0.0200 |

Fight 18 Test point 20

Sweep, deg = 24.9 Mach = 0.80 hp, ft = 33200. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 240.6 Rnpu = 2063000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9159  | 0.000                    | 0.9553  | 0.000                      | 0.9444  |
| 0.005                       | 0.2510  | 0.005                    | 0.2846  | 0.005                      | 0.5099  |
| 0.010                       | -0.0025 | 0.010                    | 0.0510  | 0.010                      | 0.2387  |
| 0.020                       | -0.2398 | 0.020                    | -0.2097 | 0.020                      | -0.0897 |
| 0.040                       | -0.4520 | 0.040                    | -0.3910 | 0.040                      | -0.2797 |
| 0.060                       | -0.5173 | 0.060                    | -0.4577 | 0.060                      | -0.3891 |
| 0.080                       | -0.5565 | 0.080                    | -0.5032 | 0.080                      | -0.4300 |
| 0.100                       | -0.5895 | 0.100                    | -0.5304 | 0.100                      | -0.4588 |
| 0.125                       | -0.5734 | 0.125                    | -0.5375 | 0.125                      | -0.4803 |
| 0.150                       | -0.6480 | 0.150                    | -0.5682 | 0.150                      | -0.5116 |
| 0.175                       | -0.6603 | 0.175                    | -0.6383 | 0.175                      | -0.5769 |
| 0.200                       | -0.7440 | 0.200                    | -0.6862 | 0.200                      | -0.6251 |
| 0.250                       | -0.8243 | 0.250                    | -0.7831 | 0.250                      | -0.6837 |
| 0.300                       | -0.8894 | 0.300                    | -0.8320 | 0.300                      | -0.7023 |
| 0.350                       | -0.8718 | 0.350                    | -0.8750 | 0.350                      | -0.7894 |
| 0.400                       | -0.8497 | 0.400                    | -0.9488 | 0.400                      | -0.8284 |
| 0.450                       | -0.7295 | 0.450                    | -0.9617 | 0.450                      | -0.8777 |
| 0.500                       | -0.6927 | 0.500                    | -1.0063 | 0.500                      | -0.8947 |
| 0.550                       | -0.3912 | 0.550                    | -0.4954 | 0.550                      | -0.4299 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3342 | 0.005 | 0.3488 | 0.005 | 0.2964  |
| 0.010 | 0.0748 | 0.010 | 0.0275 | 0.010 | -0.0881 |

Fight 18 Test point 21

Sweep, deg = 24.9 Mach = 0.79 hp, ft = 32300. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 247.5 R<sub>npu</sub> = 2115000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9129  | 0.000                    | 0.9521  | 0.000                      | 0.9432  |
| 0.005                       | 0.2815  | 0.005                    | 0.3153  | 0.005                      | 0.5332  |
| 0.010                       | 0.0276  | 0.010                    | 0.0784  | 0.010                      | 0.2702  |
| 0.020                       | -0.2118 | 0.020                    | -0.1765 | 0.020                      | -0.0574 |
| 0.040                       | -0.4207 | 0.040                    | -0.3574 | 0.040                      | -0.2488 |
| 0.060                       | -0.4950 | 0.060                    | -0.4240 | 0.060                      | -0.3621 |
| 0.080                       | -0.5358 | 0.080                    | -0.4775 | 0.080                      | -0.3984 |
| 0.100                       | -0.5622 | 0.100                    | -0.5007 | 0.100                      | -0.4305 |
| 0.125                       | -0.5218 | 0.125                    | -0.5191 | 0.125                      | -0.4496 |
| 0.150                       | -0.6171 | 0.150                    | -0.5657 | 0.150                      | -0.4988 |
| 0.175                       | -0.6486 | 0.175                    | -0.6284 | 0.175                      | -0.5753 |
| 0.200                       | -0.7233 | 0.200                    | -0.6656 | 0.200                      | -0.6071 |
| 0.250                       | -0.7878 | 0.250                    | -0.7546 | 0.250                      | -0.5985 |
| 0.300                       | -0.8487 | 0.300                    | -0.8064 | 0.300                      | -0.6760 |
| 0.350                       | -0.7197 | 0.350                    | -0.8482 | 0.350                      | -0.7711 |
| 0.400                       | -0.7458 | 0.400                    | -0.9166 | 0.400                      | -0.8097 |
| 0.450                       | -0.7384 | 0.450                    | -0.9123 | 0.450                      | -0.8390 |
| 0.500                       | -0.4702 | 0.500                    | -0.5144 | 0.500                      | -0.4173 |
| 0.550                       | -0.4006 | 0.550                    | -0.4531 | 0.550                      | -0.3935 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2920 | 0.005 | 0.3128  | 0.005 | 0.2520  |
| 0.010 | 0.0323 | 0.010 | -0.0155 | 0.010 | -0.1432 |

Fight 18 Test point 22

Sweep, deg = 20.1 Mach = 0.81 hp, ft = 32700. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 251.0 Rnpu = 2126000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9918  | 0.000                    | 1.0285  | 0.000                      | 1.0150  |
| 0.005                       | 0.1985  | 0.005                    | 0.2542  | 0.005                      | 0.5017  |
| 0.010                       | -0.0700 | 0.010                    | -0.0027 | 0.010                      | 0.2101  |
| 0.020                       | -0.3232 | 0.020                    | -0.2676 | 0.020                      | -0.1465 |
| 0.040                       | -0.5826 | 0.040                    | -0.4629 | 0.040                      | -0.3379 |
| 0.060                       | -0.6352 | 0.060                    | -0.5275 | 0.060                      | -0.4502 |
| 0.080                       | -0.6327 | 0.080                    | -0.5811 | 0.080                      | -0.5204 |
| 0.100                       | -0.6869 | 0.100                    | -0.6245 | 0.100                      | -0.5182 |
| 0.125                       | -0.6492 | 0.125                    | -0.6315 | 0.125                      | -0.5219 |
| 0.150                       | -0.7388 | 0.150                    | -0.6469 | 0.150                      | -0.5764 |
| 0.175                       | -0.7503 | 0.175                    | -0.6865 | 0.175                      | -0.6143 |
| 0.200                       | -0.8193 | 0.200                    | -0.7259 | 0.200                      | -0.6237 |
| 0.250                       | -0.9268 | 0.250                    | -0.8317 | 0.250                      | -0.7500 |
| 0.300                       | -1.0032 | 0.300                    | -0.8908 | 0.300                      | -0.7870 |
| 0.350                       | -1.0041 | 0.350                    | -0.9487 | 0.350                      | -0.8655 |
| 0.400                       | -1.0025 | 0.400                    | -1.0264 | 0.400                      | -0.9160 |
| 0.450                       | -0.9973 | 0.450                    | -1.0484 | 0.450                      | -0.9662 |
| 0.500                       | -0.6194 | 0.500                    | -0.5513 | 0.500                      | -0.9819 |
| 0.550                       | -0.4292 | 0.550                    | -0.4012 | 0.550                      | -0.9036 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4824 | 0.005 | 0.4884 | 0.005 | 0.4232 |
| 0.010 | 0.2187 | 0.010 | 0.1723 | 0.010 | 0.0436 |

Fight 18 Test point 23

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25300. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 349.4 Rnpu = 2802000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9873  | 0.000                    | 1.0228  | 0.000                      | 1.0055  |
| 0.005                       | 0.3707  | 0.005                    | 0.4224  | 0.005                      | 0.6350  |
| 0.010                       | 0.1063  | 0.010                    | 0.1727  | 0.010                      | 0.3743  |
| 0.020                       | -0.1516 | 0.020                    | -0.0944 | 0.020                      | 0.0334  |
| 0.040                       | -0.3740 | 0.040                    | -0.2924 | 0.040                      | -0.1748 |
| 0.060                       | -0.4568 | 0.060                    | -0.3757 | 0.060                      | -0.2962 |
| 0.080                       | -0.5061 | 0.080                    | -0.4321 | 0.080                      | -0.3505 |
| 0.100                       | -0.5520 | 0.100                    | -0.4618 | 0.100                      | -0.3847 |
| 0.125                       | -0.5515 | 0.125                    | -0.4858 | 0.125                      | -0.4063 |
| 0.150                       | -0.6315 | 0.150                    | -0.5280 | 0.150                      | -0.4576 |
| 0.175                       | -0.6454 | 0.175                    | -0.5958 | 0.175                      | -0.5232 |
| 0.200                       | -0.7134 | 0.200                    | -0.6476 | 0.200                      | -0.5767 |
| 0.250                       | -0.8145 | 0.250                    | -0.7423 | 0.250                      | -0.6418 |
| 0.300                       | -0.8755 | 0.300                    | -0.8041 | 0.300                      | -0.6892 |
| 0.350                       | -0.8815 | 0.350                    | -0.8632 | 0.350                      | -0.7762 |
| 0.400                       | -0.9132 | 0.400                    | -0.9383 | 0.400                      | -0.8217 |
| 0.450                       | -0.9261 | 0.450                    | -0.9666 | 0.450                      | -0.8752 |
| 0.500                       | -1.0156 | 0.500                    | -1.0200 | 0.500                      | -0.9035 |
| 0.550                       | -0.5303 | 0.550                    | -0.7884 | 0.550                      | -0.9103 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3108 | 0.005 | 0.3049  | 0.005 | 0.2329  |
| 0.010 | 0.0278 | 0.010 | -0.0458 | 0.010 | -0.1910 |

Fight 18 Test point 24

Sweep, deg = 20.1 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 351.8 Rnpu = 2819000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9810  | 0.000                    | 1.0205  | 0.000                      | 1.0019  |
| 0.005                       | 0.3842  | 0.005                    | 0.4367  | 0.005                      | 0.6437  |
| 0.010                       | 0.1219  | 0.010                    | 0.1903  | 0.010                      | 0.3855  |
| 0.020                       | -0.1371 | 0.020                    | -0.0820 | 0.020                      | 0.0451  |
| 0.040                       | -0.3596 | 0.040                    | -0.2787 | 0.040                      | -0.1626 |
| 0.060                       | -0.4431 | 0.060                    | -0.3583 | 0.060                      | -0.2883 |
| 0.080                       | -0.5013 | 0.080                    | -0.4190 | 0.080                      | -0.3388 |
| 0.100                       | -0.5293 | 0.100                    | -0.4503 | 0.100                      | -0.3733 |
| 0.125                       | -0.5452 | 0.125                    | -0.4746 | 0.125                      | -0.3971 |
| 0.150                       | -0.6216 | 0.150                    | -0.5319 | 0.150                      | -0.4512 |
| 0.175                       | -0.6245 | 0.175                    | -0.5388 | 0.175                      | -0.5180 |
| 0.200                       | -0.7085 | 0.200                    | -0.6385 | 0.200                      | -0.5699 |
| 0.250                       | -0.8040 | 0.250                    | -0.7319 | 0.250                      | -0.5962 |
| 0.300                       | -0.8667 | 0.300                    | -0.7937 | 0.300                      | -0.6793 |
| 0.350                       | -0.8763 | 0.350                    | -0.8539 | 0.350                      | -0.7599 |
| 0.400                       | -0.9049 | 0.400                    | -0.9292 | 0.400                      | -0.8127 |
| 0.450                       | -0.9187 | 0.450                    | -0.9597 | 0.450                      | -0.8656 |
| 0.500                       | -0.9969 | 0.500                    | -1.0094 | 0.500                      | -0.8901 |
| 0.550                       | -0.4423 | 0.550                    | -0.9109 | 0.550                      | -0.9087 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2897 | 0.005 | 0.2866  | 0.005 | 0.2155  |
| 0.010 | 0.0064 | 0.010 | -0.0665 | 0.010 | -0.2136 |

Fight 18 Test point 25

Sweep, deg = 20.0 Mach = 0.81 hp, ft = 25000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 357.2 Rnpu = 2842000.

Upper surface

| BL 200.8<br>inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9919  | 0.000                    | 1.0236  | 0.000                      | 1.0073  |
| 0.005                       | 0.3790  | 0.005                    | 0.4331  | 0.005                      | 0.6407  |
| 0.010                       | 0.1132  | 0.010                    | 0.1859  | 0.010                      | 0.3821  |
| 0.020                       | -0.1423 | 0.020                    | -0.0850 | 0.020                      | 0.0444  |
| 0.040                       | -0.3632 | 0.040                    | -0.2839 | 0.040                      | -0.1660 |
| 0.060                       | -0.4478 | 0.060                    | -0.3642 | 0.060                      | -0.2869 |
| 0.080                       | -0.5006 | 0.080                    | -0.4249 | 0.080                      | -0.3434 |
| 0.100                       | -0.5496 | 0.100                    | -0.4596 | 0.100                      | -0.3775 |
| 0.125                       | -0.5489 | 0.125                    | -0.4791 | 0.125                      | -0.4017 |
| 0.150                       | -0.6174 | 0.150                    | -0.5212 | 0.150                      | -0.4527 |
| 0.175                       | -0.6393 | 0.175                    | -0.5847 | 0.175                      | -0.5179 |
| 0.200                       | -0.7088 | 0.200                    | -0.6348 | 0.200                      | -0.5692 |
| 0.250                       | -0.8087 | 0.250                    | -0.7317 | 0.250                      | -0.6354 |
| 0.300                       | -0.8775 | 0.300                    | -0.7980 | 0.300                      | -0.6854 |
| 0.350                       | -0.8715 | 0.350                    | -0.8622 | 0.350                      | -0.7720 |
| 0.400                       | -0.9094 | 0.400                    | -0.9316 | 0.400                      | -0.8214 |
| 0.450                       | -0.9222 | 0.450                    | -0.9577 | 0.450                      | -0.8728 |
| 0.500                       | -1.0124 | 0.500                    | -1.0160 | 0.500                      | -0.9026 |
| 0.550                       | -0.6712 | 0.550                    | -0.7538 | 0.550                      | -0.9105 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3116 | 0.005 | 0.3025  | 0.005 | 0.2311  |
| 0.010 | 0.0300 | 0.010 | -0.0475 | 0.010 | -0.1929 |



Fight 18 Test point 26

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25500. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 347.6 R<sub>npu</sub> = 2779000.

Upper surface

| BL 200.8<br>Inboard station |                | BL 260<br>Middle station |                | BL 320<br>Outboard station |                |
|-----------------------------|----------------|--------------------------|----------------|----------------------------|----------------|
| x/c                         | C <sub>p</sub> | x/c                      | C <sub>p</sub> | x/c                        | C <sub>p</sub> |
| 0.000                       | 0.9908         | 0.000                    | 1.0260         | 0.000                      | 1.0097         |
| 0.005                       | 0.3058         | 0.005                    | 0.3621         | 0.005                      | 0.5896         |
| 0.010                       | 0.0386         | 0.010                    | 0.1086         | 0.010                      | 0.3170         |
| 0.020                       | -0.2174        | 0.020                    | -0.1585        | 0.020                      | -0.0323        |
| 0.040                       | -0.4402        | 0.040                    | -0.3566        | 0.040                      | -0.2335        |
| 0.060                       | -0.5068        | 0.060                    | -0.4330        | 0.060                      | -0.3588        |
| 0.080                       | -0.5915        | 0.080                    | -0.4877        | 0.080                      | -0.4046        |
| 0.100                       | -0.6116        | 0.100                    | -0.5230        | 0.100                      | -0.4317        |
| 0.125                       | -0.5734        | 0.125                    | -0.5265        | 0.125                      | -0.4580        |
| 0.150                       | -0.6642        | 0.150                    | -0.5845        | 0.150                      | -0.4919        |
| 0.175                       | -0.6804        | 0.175                    | -0.6311        | 0.175                      | -0.5479        |
| 0.200                       | -0.7512        | 0.200                    | -0.6707        | 0.200                      | -0.6047        |
| 0.250                       | -0.8555        | 0.250                    | -0.7712        | 0.250                      | -0.6928        |
| 0.300                       | -0.9290        | 0.300                    | -0.8425        | 0.300                      | -0.7183        |
| 0.350                       | -0.9342        | 0.350                    | -0.8945        | 0.350                      | -0.8054        |
| 0.400                       | -0.9394        | 0.400                    | -0.9763        | 0.400                      | -0.8643        |
| 0.450                       | -0.9493        | 0.450                    | -1.0054        | 0.450                      | -0.9184        |
| 0.500                       | -1.0549        | 0.500                    | -1.0508        | 0.500                      | -0.9471        |
| 0.550                       | -0.5786        | 0.550                    | -0.5307        | 0.550                      | -0.9344        |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3779 | 0.005 | 0.3646 | 0.005 | 0.2972  |
| 0.010 | 0.1007 | 0.010 | 0.0318 | 0.010 | -0.1102 |

Fight 18 Test point 27

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25300. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 350.6 Rnpu = 2800000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9912  | 0.000                    | 1.0246  | 0.000                      | 1.0115  |
| 0.005                       | 0.2462  | 0.005                    | 0.3066  | 0.005                      | 0.5474  |
| 0.010                       | -0.0235 | 0.010                    | 0.0480  | 0.010                      | 0.2636  |
| 0.020                       | -0.2817 | 0.020                    | -0.2232 | 0.020                      | -0.0901 |
| 0.040                       | -0.5014 | 0.040                    | -0.4188 | 0.040                      | -0.2876 |
| 0.060                       | -0.5737 | 0.060                    | -0.4858 | 0.060                      | -0.4103 |
| 0.080                       | -0.6280 | 0.080                    | -0.5428 | 0.080                      | -0.4757 |
| 0.100                       | -0.6333 | 0.100                    | -0.5878 | 0.100                      | -0.4730 |
| 0.125                       | -0.6190 | 0.125                    | -0.5903 | 0.125                      | -0.4882 |
| 0.150                       | -0.7062 | 0.150                    | -0.6047 | 0.150                      | -0.5529 |
| 0.175                       | -0.7241 | 0.175                    | -0.6651 | 0.175                      | -0.5521 |
| 0.200                       | -0.7956 | 0.200                    | -0.7023 | 0.200                      | -0.6259 |
| 0.250                       | -0.9021 | 0.250                    | -0.8022 | 0.250                      | -0.7228 |
| 0.300                       | -0.9669 | 0.300                    | -0.8711 | 0.300                      | -0.7622 |
| 0.350                       | -0.9659 | 0.350                    | -0.9273 | 0.350                      | -0.8390 |
| 0.400                       | -0.9675 | 0.400                    | -1.0061 | 0.400                      | -0.8833 |
| 0.450                       | -0.9855 | 0.450                    | -1.0378 | 0.450                      | -0.9490 |
| 0.500                       | -1.0714 | 0.500                    | -1.0688 | 0.500                      | -0.9797 |
| 0.550                       | -0.4515 | 0.550                    | -0.4384 | 0.550                      | -0.9497 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4339 | 0.005 | 0.4270 | 0.005 | 0.3545  |
| 0.010 | 0.1693 | 0.010 | 0.1015 | 0.010 | -0.0374 |

Fight 18 Test point 28

Sweep, deg = 25.0 Mach = 0.80 hp, ft = 25100. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 350.2 Rnpu = 2806000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9038  | 0.000                    | 0.9389  | 0.000                      | 0.9251  |
| 0.005                       | 0.3065  | 0.005                    | 0.3487  | 0.005                      | 0.5560  |
| 0.010                       | 0.0585  | 0.010                    | 0.1102  | 0.010                      | 0.3018  |
| 0.020                       | -0.1860 | 0.020                    | -0.1443 | 0.020                      | -0.0216 |
| 0.040                       | -0.3880 | 0.040                    | -0.3268 | 0.040                      | -0.2128 |
| 0.060                       | -0.4633 | 0.060                    | -0.3985 | 0.060                      | -0.3324 |
| 0.080                       | -0.50   | 0.080                    | -0.4506 | 0.080                      | -0.3754 |
| 0.100                       | -0.5279 | 0.100                    | -0.4737 | 0.100                      | -0.4040 |
| 0.125                       | -0.5093 | 0.125                    | -0.4906 | 0.125                      | -0.4261 |
| 0.150                       | -0.6097 | 0.150                    | -0.5430 | 0.150                      | -0.4715 |
| 0.175                       | -0.6215 | 0.175                    | -0.5994 | 0.175                      | -0.5605 |
| 0.200                       | -0.6899 | 0.200                    | -0.6172 | 0.200                      | -0.5804 |
| 0.250                       | -0.7698 | 0.250                    | -0.7316 | 0.250                      | -0.6042 |
| 0.300                       | -0.8401 | 0.300                    | -0.7978 | 0.300                      | -0.6597 |
| 0.350                       | -0.8288 | 0.350                    | -0.8452 | 0.350                      | -0.7477 |
| 0.400                       | -0.7163 | 0.400                    | -0.9097 | 0.400                      | -0.8034 |
| 0.450                       | -0.7469 | 0.450                    | -0.9262 | 0.450                      | -0.8447 |
| 0.500                       | -0.7456 | 0.500                    | -0.9509 | 0.500                      | -0.8558 |
| 0.550                       | -0.3948 | 0.550                    | -0.4574 | 0.550                      | -0.3976 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2637 | 0.005 | 0.2706  | 0.005 | 0.2070  |
| 0.010 | 0.0028 | 0.010 | -0.0562 | 0.010 | -0.1902 |

Fight 18 Test point 29

Sweep, deg = 25.0 Mach = 0.81 hp, ft = 25100. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 353.7 Rnpu = 2821000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9080  | 0.000                    | 0.9430  | 0.000                      | 0.9331  |
| 0.005                       | 0.2332  | 0.005                    | 0.2754  | 0.005                      | 0.4986  |
| 0.010                       | -0.0232 | 0.010                    | 0.0322  | 0.010                      | 0.2307  |
| 0.020                       | -0.2663 | 0.020                    | -0.2214 | 0.020                      | -0.1034 |
| 0.040                       | -0.4691 | 0.040                    | -0.4085 | 0.040                      | -0.2862 |
| 0.060                       | -0.5245 | 0.060                    | -0.4693 | 0.060                      | -0.4078 |
| 0.080                       | -0.5811 | 0.080                    | -0.5180 | 0.080                      | -0.4447 |
| 0.100                       | -0.6179 | 0.100                    | -0.5421 | 0.100                      | -0.4614 |
| 0.125                       | -0.5881 | 0.125                    | -0.5340 | 0.125                      | -0.4814 |
| 0.150                       | -0.6717 | 0.150                    | -0.5667 | 0.150                      | -0.4946 |
| 0.175                       | -0.6689 | 0.175                    | -0.6310 | 0.175                      | -0.5708 |
| 0.200                       | -0.7455 | 0.200                    | -0.6609 | 0.200                      | -0.6116 |
| 0.250                       | -0.8143 | 0.250                    | -0.7793 | 0.250                      | -0.6969 |
| 0.300                       | -0.8956 | 0.300                    | -0.8358 | 0.300                      | -0.7307 |
| 0.350                       | -0.8981 | 0.350                    | -0.8813 | 0.350                      | -0.8041 |
| 0.400                       | -0.8958 | 0.400                    | -0.9523 | 0.400                      | -0.8520 |
| 0.450                       | -0.8824 | 0.450                    | -0.9856 | 0.450                      | -0.9023 |
| 0.500                       | -0.7980 | 0.500                    | -1.0253 | 0.500                      | -0.9173 |
| 0.550                       | -0.4205 | 0.550                    | -0.6144 | 0.550                      | -0.6757 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3500 | 0.005 | 0.3542 | 0.005 | 0.2935  |
| 0.010 | 0.0988 | 0.010 | 0.0455 | 0.010 | -0.0774 |

Fight 18 Test point 30

Sweep, deg = 25.0 Mach = 0.80 hp, ft = 25100. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 350.2 R<sub>pu</sub> = 2807000.

Upper surface

| BL 200.8<br>Inboard station |                | BL 260<br>Middle station |                | BL 320<br>Outboard station |                |
|-----------------------------|----------------|--------------------------|----------------|----------------------------|----------------|
| x/c                         | C <sub>p</sub> | x/c                      | C <sub>p</sub> | x/c                        | C <sub>p</sub> |
| 0.000                       | 0.9035         | 0.000                    | 0.9365         | 0.000                      | 0.9302         |
| 0.005                       | 0.1403         | 0.005                    | 0.1827         | 0.005                      | 0.4215         |
| 0.010                       | -0.1156        | 0.010                    | -0.0693        | 0.010                      | 0.1418         |
| 0.020                       | -0.3596        | 0.020                    | -0.3220        | 0.020                      | -0.1985        |
| 0.040                       | -0.5819        | 0.040                    | -0.5044        | 0.040                      | -0.3759        |
| 0.060                       | -0.6267        | 0.060                    | -0.5602        | 0.060                      | -0.4815        |
| 0.080                       | -0.6728        | 0.080                    | -0.6047        | 0.080                      | -0.5806        |
| 0.100                       | -0.6541        | 0.100                    | -0.6410        | 0.100                      | -0.5382        |
| 0.125                       | -0.6335        | 0.125                    | -0.6307        | 0.125                      | -0.5246        |
| 0.150                       | -0.7179        | 0.150                    | -0.6510        | 0.150                      | -0.5921        |
| 0.175                       | -0.7231        | 0.175                    | -0.6955        | 0.175                      | -0.5896        |
| 0.200                       | -0.7934        | 0.200                    | -0.7015        | 0.200                      | -0.6552        |
| 0.250                       | -0.6811        | 0.250                    | -0.8156        | 0.250                      | -0.7442        |
| 0.300                       | -0.9355        | 0.300                    | -0.8733        | 0.300                      | -0.7876        |
| 0.350                       | -0.9330        | 0.350                    | -0.9295        | 0.350                      | -0.8362        |
| 0.400                       | -0.9520        | 0.400                    | -1.0027        | 0.400                      | -0.8972        |
| 0.450                       | -0.9537        | 0.450                    | -1.0307        | 0.450                      | -0.9475        |
| 0.500                       | -0.7910        | 0.500                    | -1.0741        | 0.500                      | -0.9669        |
| 0.550                       | -0.4097        | 0.550                    | -0.5497        | 0.550                      | -0.5819        |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4255 | 0.005 | 0.4337 | 0.005 | 0.3780 |
| 0.010 | 0.1819 | 0.010 | 0.1376 | 0.010 | 0.0265 |

Fight 18 Test point 31

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 269.1 Rnpu = 2426000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9416  | 0.000                    | 0.9786  | 0.000                      | 0.9804  |
| 0.005                       | -0.0208 | 0.005                    | 0.0442  | 0.005                      | 0.3680  |
| 0.010                       | -0.3044 | 0.010                    | -0.2268 | 0.010                      | 0.0530  |
| 0.020                       | -0.5571 | 0.020                    | -0.4880 | 0.020                      | -0.3062 |
| 0.040                       | -0.7231 | 0.040                    | -0.6363 | 0.040                      | -0.4644 |
| 0.060                       | -0.7454 | 0.060                    | -0.6561 | 0.060                      | -0.5454 |
| 0.080                       | -0.7563 | 0.080                    | -0.6744 | 0.080                      | -0.5535 |
| 0.100                       | -0.7579 | 0.100                    | -0.6824 | 0.100                      | -0.5656 |
| 0.125                       | -0.6730 | 0.125                    | -0.6732 | 0.125                      | -0.5600 |
| 0.150                       | -0.7641 | 0.150                    | -0.7017 | 0.150                      | -0.5837 |
| 0.175                       | -0.7363 | 0.175                    | -0.7294 | 0.175                      | -0.6056 |
| 0.200                       | -0.7928 | 0.200                    | -0.7567 | 0.200                      | -0.6056 |
| 0.250                       | -0.7829 | 0.250                    | -0.7720 | 0.250                      | -0.6411 |
| 0.300                       | -0.7507 | 0.300                    | -0.7480 | 0.300                      | -0.6325 |
| 0.350                       | -0.6784 | 0.350                    | -0.6939 | 0.350                      | -0.6287 |
| 0.400                       | -0.6113 | 0.400                    | -0.6700 | 0.400                      | -0.5916 |
| 0.450                       | -0.5381 | 0.450                    | -0.5990 | 0.450                      | -0.5559 |
| 0.500                       | -0.5176 | 0.500                    | -0.5730 | 0.500                      | -0.5132 |
| 0.550                       | -0.4483 | 0.550                    | -0.5482 | 0.550                      | -0.4848 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5108 | 0.005 | 0.5166 | 0.005 | 0.4294 |
| 0.010 | 0.2596 | 0.010 | 0.2108 | 0.010 | 0.0565 |

Fight 18 Test point 32

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 25300. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 265.3 Rnpu = 2398000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9559  | 0.000                    | 1.0003  | 0.000                      | 0.9860  |
| 0.005                       | 0.1813  | 0.005                    | 0.2449  | 0.005                      | 0.5229  |
| 0.010                       | -0.0970 | 0.010                    | -0.0207 | 0.010                      | 0.2366  |
| 0.020                       | -0.3469 | 0.020                    | -0.2830 | 0.020                      | -0.1100 |
| 0.040                       | -0.5287 | 0.040                    | -0.4469 | 0.040                      | -0.2922 |
| 0.060                       | -0.5788 | 0.060                    | -0.4912 | 0.060                      | -0.3864 |
| 0.080                       | -0.6035 | 0.080                    | -0.5219 | 0.080                      | -0.4158 |
| 0.100                       | -0.6129 | 0.100                    | -0.5386 | 0.100                      | -0.4357 |
| 0.125                       | -0.5640 | 0.125                    | -0.5539 | 0.125                      | -0.4467 |
| 0.150                       | -0.6469 | 0.150                    | -0.5875 | 0.150                      | -0.4799 |
| 0.175                       | -0.6373 | 0.175                    | -0.6184 | 0.175                      | -0.5061 |
| 0.200                       | -0.6932 | 0.200                    | -0.6420 | 0.200                      | -0.5127 |
| 0.250                       | -0.6937 | 0.250                    | -0.6757 | 0.250                      | -0.5574 |
| 0.300                       | -0.6780 | 0.300                    | -0.6635 | 0.300                      | -0.5586 |
| 0.350                       | -0.6253 | 0.350                    | -0.6291 | 0.350                      | -0.5630 |
| 0.400                       | -0.5706 | 0.400                    | -0.6219 | 0.400                      | -0.5448 |
| 0.450                       | -0.5055 | 0.450                    | -0.5810 | 0.450                      | -0.5247 |
| 0.500                       | -0.4904 | 0.500                    | -0.5426 | 0.500                      | -0.4840 |
| 0.550                       | -0.4222 | 0.550                    | -0.5232 | 0.550                      | -0.4669 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3587 | 0.005 | 0.3528 | 0.005 | 0.2498  |
| 0.010 | 0.0861 | 0.010 | 0.0171 | 0.010 | -0.1606 |

Fight 18 Test point 33

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 269.6 Rnpu = 2431000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9377  | 0.000                    | 0.9767  | 0.000                      | 0.9822  |
| 0.005                       | -0.0275 | 0.005                    | 0.0411  | 0.005                      | 0.3665  |
| 0.010                       | -0.3049 | 0.010                    | -0.2321 | 0.010                      | 0.0512  |
| 0.020                       | -0.5617 | 0.020                    | -0.4914 | 0.020                      | -0.3134 |
| 0.040                       | -0.7300 | 0.040                    | -0.6419 | 0.040                      | -0.4735 |
| 0.060                       | -0.7556 | 0.060                    | -0.6644 | 0.060                      | -0.5496 |
| 0.080                       | -0.7628 | 0.080                    | -0.6785 | 0.080                      | -0.5637 |
| 0.100                       | -0.7611 | 0.100                    | -0.6819 | 0.100                      | -0.5693 |
| 0.125                       | -0.6781 | 0.125                    | -0.6798 | 0.125                      | -0.5647 |
| 0.150                       | -0.7688 | 0.150                    | -0.7069 | 0.150                      | -0.5889 |
| 0.175                       | -0.7468 | 0.175                    | -0.7347 | 0.175                      | -0.6093 |
| 0.200                       | -0.7986 | 0.200                    | -0.7649 | 0.200                      | -0.6132 |
| 0.250                       | -0.7867 | 0.250                    | -0.7830 | 0.250                      | -0.6475 |
| 0.300                       | -0.7560 | 0.300                    | -0.7566 | 0.300                      | -0.6378 |
| 0.350                       | -0.6829 | 0.350                    | -0.7016 | 0.350                      | -0.6333 |
| 0.400                       | -0.6144 | 0.400                    | -0.6801 | 0.400                      | -0.5951 |
| 0.450                       | -0.5434 | 0.450                    | -0.6066 | 0.450                      | -0.5637 |
| 0.500                       | -0.5224 | 0.500                    | -0.5788 | 0.500                      | -0.5156 |
| 0.550                       | -0.4485 | 0.550                    | -0.5541 | 0.550                      | -0.4910 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5146 | 0.005 | 0.5173 | 0.005 | 0.4299 |
| 0.010 | 0.2650 | 0.010 | 0.2114 | 0.010 | 0.0578 |



Fight 18 Test point 34

Sweep, deg = 24.9 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 289.9 R<sub>pu</sub> = 2436000.

Upper surface

| BL 200.8<br>Inboard station |                | BL 260<br>Middle station |                | BL 320<br>Outboard station |                |
|-----------------------------|----------------|--------------------------|----------------|----------------------------|----------------|
| x/c                         | C <sub>p</sub> | x/c                      | C <sub>p</sub> | x/c                        | C <sub>p</sub> |
| 0.000                       | 0.8717         | 0.000                    | 0.9091         | 0.000                      | 0.9157         |
| 0.005                       | -0.0332        | 0.005                    | 0.0216         | 0.005                      | 0.3277         |
| 0.010                       | -0.2948        | 0.010                    | -0.2309        | 0.010                      | 0.0315         |
| 0.020                       | -0.5284        | 0.020                    | -0.4719        | 0.020                      | -0.3045        |
| 0.040                       | -0.6715        | 0.040                    | -0.6006        | 0.040                      | -0.4467        |
| 0.060                       | -0.6900        | 0.060                    | -0.6222        | 0.060                      | -0.5186        |
| 0.080                       | -0.6952        | 0.080                    | -0.6373        | 0.080                      | -0.5255        |
| 0.100                       | -0.6934        | 0.100                    | -0.6313        | 0.100                      | -0.5300        |
| 0.125                       | -0.6194        | 0.125                    | -0.6277        | 0.125                      | -0.5283        |
| 0.150                       | -0.6914        | 0.150                    | -0.6470        | 0.150                      | -0.5466        |
| 0.175                       | -0.6760        | 0.175                    | -0.6695        | 0.175                      | -0.5689        |
| 0.200                       | -0.7171        | 0.200                    | -0.6851        | 0.200                      | -0.5522        |
| 0.250                       | -0.7106        | 0.250                    | -0.7097        | 0.250                      | -0.5901        |
| 0.300                       | -0.6868        | 0.300                    | -0.6807        | 0.300                      | -0.5763        |
| 0.350                       | -0.6270        | 0.350                    | -0.6357        | 0.350                      | -0.5766        |
| 0.400                       | -0.5722        | 0.400                    | -0.6204        | 0.400                      | -0.5505        |
| 0.450                       | -0.5085        | 0.450                    | -0.5614        | 0.450                      | -0.5214        |
| 0.500                       | -0.4878        | 0.500                    | -0.5390        | 0.500                      | -0.4803        |
| 0.550                       | -0.4196        | 0.550                    | -0.5180        | 0.550                      | -0.4649        |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4610 | 0.005 | 0.4723 | 0.005 | 0.3925 |
| 0.010 | 0.2233 | 0.010 | 0.1842 | 0.010 | 0.0410 |

Flight 18 Test point 35

Sweep, deg = 24.5 Mach = 0.70 hp, ft = 24900. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 269.3 Rnpu = 2433000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8877  | 0.000                    | 0.9264  | 0.000                      | 0.9173  |
| 0.005                       | 0.1567  | 0.005                    | 0.2081  | 0.005                      | 0.4732  |
| 0.010                       | -0.1023 | 0.010                    | -0.0350 | 0.010                      | 0.1986  |
| 0.020                       | -0.3360 | 0.020                    | -0.2807 | 0.020                      | -0.1204 |
| 0.040                       | -0.4907 | 0.040                    | -0.4346 | 0.040                      | -0.2905 |
| 0.060                       | -0.5387 | 0.060                    | -0.4659 | 0.060                      | -0.3643 |
| 0.080                       | -0.5610 | 0.080                    | -0.4959 | 0.080                      | -0.3956 |
| 0.100                       | -0.5712 | 0.100                    | -0.5070 | 0.100                      | -0.4118 |
| 0.125                       | -0.5261 | 0.125                    | -0.5156 | 0.125                      | -0.4245 |
| 0.150                       | -0.5946 | 0.150                    | -0.5429 | 0.150                      | -0.4515 |
| 0.175                       | -0.5861 | 0.175                    | -0.5644 | 0.175                      | -0.4752 |
| 0.200                       | -0.6330 | 0.200                    | -0.5884 | 0.200                      | -0.4652 |
| 0.250                       | -0.6332 | 0.250                    | -0.6221 | 0.250                      | -0.5150 |
| 0.300                       | -0.6201 | 0.300                    | -0.6113 | 0.300                      | -0.5143 |
| 0.350                       | -0.5791 | 0.350                    | -0.5766 | 0.350                      | -0.5208 |
| 0.400                       | -0.5333 | 0.400                    | -0.5695 | 0.400                      | -0.5028 |
| 0.450                       | -0.4724 | 0.450                    | -0.5217 | 0.450                      | -0.4862 |
| 0.500                       | -0.4602 | 0.500                    | -0.5076 | 0.500                      | -0.4516 |
| 0.550                       | -0.4026 | 0.550                    | -0.5000 | 0.550                      | -0.4491 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3147 | 0.005 | 0.3205 | 0.005 | 0.2233  |
| 0.010 | 0.0626 | 0.010 | 0.0048 | 0.010 | -0.1603 |

Fight 18 Test point 36

Sweep, deg = 25.2 Mach = 0.70 hp, ft = 24800. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 273.1 Rnpu = 2453000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8640  | 0.000                    | 0.8989  | 0.000                      | 0.9013  |
| 0.005                       | -0.0615 | 0.005                    | -0.0166 | 0.005                      | 0.2933  |
| 0.010                       | -0.3301 | 0.010                    | -0.2731 | 0.010                      | -0.0096 |
| 0.020                       | -0.5601 | 0.020                    | -0.5071 | 0.020                      | -0.3435 |
| 0.040                       | -0.7011 | 0.040                    | -0.6324 | 0.040                      | -0.4810 |
| 0.060                       | -0.7121 | 0.060                    | -0.6430 | 0.060                      | -0.5366 |
| 0.080                       | -0.7180 | 0.080                    | -0.6545 | 0.080                      | -0.5446 |
| 0.100                       | -0.7105 | 0.100                    | -0.6515 | 0.100                      | -0.5500 |
| 0.125                       | -0.6293 | 0.125                    | -0.6424 | 0.125                      | -0.5445 |
| 0.150                       | -0.7099 | 0.150                    | -0.6625 | 0.150                      | -0.5610 |
| 0.175                       | -0.6845 | 0.175                    | -0.6805 | 0.175                      | -0.5773 |
| 0.200                       | -0.7281 | 0.200                    | -0.6956 | 0.200                      | -0.5664 |
| 0.250                       | -0.7213 | 0.250                    | -0.7197 | 0.250                      | -0.5989 |
| 0.300                       | -0.6942 | 0.300                    | -0.6907 | 0.300                      | -0.5824 |
| 0.350                       | -0.6344 | 0.350                    | -0.6429 | 0.350                      | -0.5840 |
| 0.400                       | -0.5776 | 0.400                    | -0.6255 | 0.400                      | -0.5533 |
| 0.450                       | -0.5108 | 0.450                    | -0.5636 | 0.450                      | -0.5262 |
| 0.500                       | -0.4912 | 0.500                    | -0.5418 | 0.500                      | -0.4839 |
| 0.550                       | -0.4253 | 0.550                    | -0.5199 | 0.550                      | -0.4683 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4780 | 0.005 | 0.4911 | 0.005 | 0.4113 |
| 0.010 | 0.2491 | 0.010 | 0.2090 | 0.010 | 0.0753 |

Fight 18 Test point 37

Sweep, deg = 25.0 Mach = 0.71 hp, ft = 18700. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 358.9 R<sub>pu</sub> = 3083000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8779  | 0.000                    | 0.9088  | 0.000                      | 0.9067  |
| 0.005                       | 0.0537  | 0.005                    | 0.1048  | 0.005                      | 0.3885  |
| 0.010                       | -0.2051 | 0.010                    | -0.1502 | 0.010                      | 0.1051  |
| 0.020                       | -0.4408 | 0.020                    | -0.3921 | 0.020                      | -0.2279 |
| 0.040                       | -0.5922 | 0.040                    | -0.5301 | 0.040                      | -0.3824 |
| 0.060                       | -0.6222 | 0.060                    | -0.5568 | 0.060                      | -0.4559 |
| 0.080                       | -0.6387 | 0.080                    | -0.5781 | 0.080                      | -0.4730 |
| 0.100                       | -0.6438 | 0.100                    | -0.5843 | 0.100                      | -0.4851 |
| 0.125                       | -0.5810 | 0.125                    | -0.5814 | 0.125                      | -0.4876 |
| 0.150                       | -0.6545 | 0.150                    | -0.6043 | 0.150                      | -0.5073 |
| 0.175                       | -0.6377 | 0.175                    | -0.6252 | 0.175                      | -0.5272 |
| 0.200                       | -0.6849 | 0.200                    | -0.6449 | 0.200                      | -0.5206 |
| 0.250                       | -0.6869 | 0.250                    | -0.6771 | 0.250                      | -0.5645 |
| 0.300                       | -0.6685 | 0.300                    | -0.6589 | 0.300                      | -0.5584 |
| 0.350                       | -0.6140 | 0.350                    | -0.6217 | 0.350                      | -0.5587 |
| 0.400                       | -0.5636 | 0.400                    | -0.6053 | 0.400                      | -0.5337 |
| 0.450                       | -0.5011 | 0.450                    | -0.5482 | 0.450                      | -0.5116 |
| 0.500                       | -0.4849 | 0.500                    | -0.5251 | 0.500                      | -0.4730 |
| 0.550                       | -0.4212 | 0.550                    | -0.5150 | 0.550                      | -0.4626 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3939 | 0.005 | 0.4021 | 0.005 | 0.3155  |
| 0.010 | 0.1478 | 0.010 | 0.1061 | 0.010 | -0.0455 |

Fight 18 Test point 38

α<sub>app</sub>, deg = 25.0 Mach = 0.70 hp, ft = 18400. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 358.7 Rnpu = 3093000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8813  | 0.000                    | 0.9172  | 0.000                      | 0.9105  |
| 0.005                       | 0.1384  | 0.005                    | 0.1927  | 0.005                      | 0.4564  |
| 0.010                       | -0.1178 | 0.010                    | -0.0580 | 0.010                      | 0.1873  |
| 0.020                       | -0.3504 | 0.020                    | -0.2990 | 0.020                      | -0.1389 |
| 0.040                       | -0.5101 | 0.040                    | -0.4426 | 0.040                      | -0.3002 |
| 0.060                       | -0.5511 | 0.060                    | -0.4833 | 0.060                      | -0.3820 |
| 0.080                       | -0.5735 | 0.080                    | -0.5112 | 0.080                      | -0.4072 |
| 0.100                       | -0.5814 | 0.100                    | -0.5203 | 0.100                      | -0.4238 |
| 0.125                       | -0.5307 | 0.125                    | -0.5292 | 0.125                      | -0.4334 |
| 0.150                       | -0.6038 | 0.150                    | -0.5505 | 0.150                      | -0.4545 |
| 0.175                       | -0.5934 | 0.175                    | -0.5716 | 0.175                      | -0.4814 |
| 0.200                       | -0.6391 | 0.200                    | -0.5952 | 0.200                      | -0.4778 |
| 0.250                       | -0.6437 | 0.250                    | -0.6306 | 0.250                      | -0.5218 |
| 0.300                       | -0.6345 | 0.300                    | -0.6219 | 0.300                      | -0.5200 |
| 0.350                       | -0.5882 | 0.350                    | -0.5891 | 0.350                      | -0.5303 |
| 0.400                       | -0.5407 | 0.400                    | -0.5751 | 0.400                      | -0.5101 |
| 0.450                       | -0.4812 | 0.450                    | -0.5255 | 0.450                      | -0.4909 |
| 0.500                       | -0.4660 | 0.500                    | -0.5087 | 0.500                      | -0.4565 |
| 0.550                       | -0.4096 | 0.550                    | -0.5032 | 0.550                      | -0.4508 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3284 | 0.005 | 0.3237 | 0.005 | 0.2268  |
| 0.010 | 0.0757 | 0.010 | 0.0171 | 0.010 | -0.1508 |

Flight 18 Test point 39

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 15700. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 401.0 Rrho = 3402000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8824  | 0.000                    | 0.9162  | 0.000                      | 0.9017  |
| 0.005                       | 0.2020  | 0.005                    | 0.2568  | 0.005                      | 0.5074  |
| 0.010                       | -0.0543 | 0.010                    | 0.0109  | 0.010                      | 0.2475  |
| 0.020                       | -0.2875 | 0.020                    | -0.2314 | 0.020                      | -0.0759 |
| 0.040                       | -0.4529 | 0.040                    | -0.3832 | 0.040                      | -0.2479 |
| 0.060                       | -0.4989 | 0.060                    | -0.4279 | 0.060                      | -0.3334 |
| 0.080                       | -0.5191 | 0.080                    | -0.4616 | 0.080                      | -0.3639 |
| 0.100                       | -0.5354 | 0.100                    | -0.4782 | 0.100                      | -0.3835 |
| 0.125                       | -0.5002 | 0.125                    | -0.4738 | 0.125                      | -0.3982 |
| 0.150                       | -0.5693 | 0.150                    | -0.5119 | 0.150                      | -0.4132 |
| 0.175                       | -0.5645 | 0.175                    | -0.5416 | 0.175                      | -0.4449 |
| 0.200                       | -0.6077 | 0.200                    | -0.5707 | 0.200                      | -0.4470 |
| 0.250                       | -0.6177 | 0.250                    | -0.6042 | 0.250                      | -0.4971 |
| 0.300                       | -0.6090 | 0.300                    | -0.5992 | 0.300                      | -0.4994 |
| 0.350                       | -0.5664 | 0.350                    | -0.5676 | 0.350                      | -0.5105 |
| 0.400                       | -0.5245 | 0.400                    | -0.5566 | 0.400                      | -0.4947 |
| 0.450                       | -0.4711 | 0.450                    | -0.5135 | 0.450                      | -0.4785 |
| 0.500                       | -0.4576 | 0.500                    | -0.4975 | 0.500                      | -0.4480 |
| 0.550                       | -0.4027 | 0.550                    | -0.4924 | 0.550                      | -0.4465 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2691 | 0.005 | 0.2595  | 0.005 | 0.1564  |
| 0.010 | 0.0083 | 0.010 | -0.0589 | 0.010 | -0.2355 |

Fight 18 Test point 40

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 13900. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 432.4 Rnpu = 3620000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8820  | 0.000                    | 0.9134  | 0.000                      | 0.9004  |
| 0.005                       | 0.2208  | 0.005                    | 0.2775  | 0.005                      | 0.5235  |
| 0.010                       | -0.0322 | 0.010                    | 0.0329  | 0.010                      | 0.2670  |
| 0.020                       | -0.2685 | 0.020                    | -0.2133 | 0.020                      | -0.0534 |
| 0.040                       | -0.4370 | 0.040                    | -0.3659 | 0.040                      | -0.2272 |
| 0.060                       | -0.4686 | 0.060                    | -0.4146 | 0.060                      | -0.3152 |
| 0.080                       | -0.5069 | 0.080                    | -0.4482 | 0.080                      | -0.3502 |
| 0.100                       | -0.5256 | 0.100                    | -0.4578 | 0.100                      | -0.3716 |
| 0.125                       | -0.4916 | 0.125                    | -0.4643 | 0.125                      | -0.3844 |
| 0.150                       | -0.5607 | 0.150                    | -0.5049 | 0.150                      | -0.4039 |
| 0.175                       | -0.5570 | 0.175                    | -0.5343 | 0.175                      | -0.4366 |
| 0.200                       | -0.6020 | 0.200                    | -0.5614 | 0.200                      | -0.4428 |
| 0.250                       | -0.6102 | 0.250                    | -0.5948 | 0.250                      | -0.4878 |
| 0.300                       | -0.6054 | 0.300                    | -0.5922 | 0.300                      | -0.4928 |
| 0.350                       | -0.5641 | 0.350                    | -0.5658 | 0.350                      | -0.5058 |
| 0.400                       | -0.5243 | 0.400                    | -0.5555 | 0.400                      | -0.4905 |
| 0.450                       | -0.4678 | 0.450                    | -0.5097 | 0.450                      | -0.4760 |
| 0.500                       | -0.4582 | 0.500                    | -0.4948 | 0.500                      | -0.4447 |
| 0.550                       | -0.4041 | 0.550                    | -0.4906 | 0.550                      | -0.4460 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2523  | 0.005 | 0.2413  | 0.005 | 0.1319  |
| 0.010 | -0.0101 | 0.010 | -0.0807 | 0.010 | -0.2650 |

## Flight 18 Test point 41

Sweep, deg = 22.5 Mach = 0.69 hp, ft = 10400. Angle of attack, deg = -0.2  
 Angle of sideslip, deg = 0.5 QBAR, lb/ft<sup>2</sup> = 482.4 R<sub>npu</sub> = 3998000.

## Upper surface

| BL 200.8<br>Inboard station |                | BL 260<br>Middle station |                | BL 320<br>Outboard station |                |
|-----------------------------|----------------|--------------------------|----------------|----------------------------|----------------|
| x/c                         | C <sub>p</sub> | x/c                      | C <sub>p</sub> | x/c                        | C <sub>p</sub> |
| 0.000                       | 0.9131         | 0.000                    | 0.9434         | 0.000                      | 0.9232         |
| 0.005                       | 0.3326         | 0.005                    | 0.3962         | 0.005                      | 0.6258         |
| 0.010                       | 0.0710         | 0.010                    | 0.1459         | 0.010                      | 0.3774         |
| 0.020                       | -0.1771        | 0.020                    | -0.1127        | 0.020                      | 0.0484         |
| 0.040                       | -0.3630        | 0.040                    | -0.2844        | 0.040                      | -0.1439        |
| 0.060                       | -0.4253        | 0.060                    | -0.3468        | 0.060                      | -0.2476        |
| 0.080                       | -0.4513        | 0.080                    | -0.3878        | 0.080                      | -0.2881        |
| 0.100                       | -0.4791        | 0.100                    | -0.4084        | 0.100                      | -0.3175        |
| 0.125                       | -0.4559        | 0.125                    | -0.4178        | 0.125                      | -0.3233        |
| 0.150                       | -0.5250        | 0.150                    | -0.4630        | 0.150                      | -0.3619        |
| 0.175                       | -0.5300        | 0.175                    | -0.4960        | 0.175                      | -0.3926        |
| 0.200                       | -0.5751        | 0.200                    | -0.5297        | 0.200                      | -0.4066        |
| 0.250                       | -0.5900        | 0.250                    | -0.5653        | 0.250                      | -0.4614        |
| 0.300                       | -0.5887        | 0.300                    | -0.5726        | 0.300                      | -0.4718        |
| 0.350                       | -0.5488        | 0.350                    | -0.5558        | 0.350                      | -0.4892        |
| 0.400                       | -0.5115        | 0.400                    | -0.5453        | 0.400                      | -0.4828        |
| 0.450                       | -0.4621        | 0.450                    | -0.5075        | 0.450                      | -0.4718        |
| 0.500                       | -0.4505        | 0.500                    | -0.4928        | 0.500                      | -0.4453        |
| 0.550                       | -0.4036        | 0.550                    | -0.4899        | 0.550                      | -0.4493        |

## Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.1713  | 0.005 | 0.1435  | 0.005 | 0.0227  |
| 0.010 | -0.1090 | 0.010 | -0.2063 | 0.010 | -0.4159 |



Fight 18 Test point 42

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 9900. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 500.3 Rnpu = 4101000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 280<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0117  | 0.000                    | 1.0429  | 0.000                      | 1.0227  |
| 0.005                       | 0.3471  | 0.005                    | 0.4391  | 0.005                      | 0.6918  |
| 0.010                       | 0.0665  | 0.010                    | 0.1673  | 0.010                      | 0.4250  |
| 0.020                       | -0.2024 | 0.020                    | -0.1104 | 0.020                      | 0.0705  |
| 0.040                       | -0.4072 | 0.040                    | -0.3002 | 0.040                      | -0.1326 |
| 0.060                       | -0.4761 | 0.060                    | -0.3708 | 0.060                      | -0.2481 |
| 0.080                       | -0.5152 | 0.080                    | -0.4172 | 0.080                      | -0.2974 |
| 0.100                       | -0.5434 | 0.100                    | -0.4472 | 0.100                      | -0.3312 |
| 0.125                       | -0.5072 | 0.125                    | -0.4727 | 0.125                      | -0.3537 |
| 0.150                       | -0.5859 | 0.150                    | -0.5091 | 0.150                      | -0.3950 |
| 0.175                       | -0.5903 | 0.175                    | -0.5450 | 0.175                      | -0.4265 |
| 0.200                       | -0.6433 | 0.200                    | -0.5824 | 0.200                      | -0.4433 |
| 0.250                       | -0.6618 | 0.250                    | -0.6151 | 0.250                      | -0.5008 |
| 0.300                       | -0.6535 | 0.300                    | -0.6236 | 0.300                      | -0.5192 |
| 0.350                       | -0.6002 | 0.350                    | -0.6065 | 0.350                      | -0.5378 |
| 0.400                       | -0.5494 | 0.400                    | -0.5922 | 0.400                      | -0.5261 |
| 0.450                       | -0.4908 | 0.450                    | -0.5453 | 0.450                      | -0.5178 |
| 0.500                       | -0.4767 | 0.500                    | -0.5251 | 0.500                      | -0.4559 |
| 0.550                       | -0.4201 | 0.550                    | -0.5222 | 0.550                      | -0.4561 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2690  | 0.005 | 0.2230  | 0.005 | 0.0910  |
| 0.010 | -0.0284 | 0.010 | -0.1499 | 0.010 | -0.3748 |

Fight 19 Test point 1

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = -0.1  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 498.9 Rnpu = 4074000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9527  | 0.000                    | 0.9874  | 0.000                      | 0.9637  |
| 0.005                       | 0.3159  | 0.005                    | 0.3871  | 0.005                      | 0.6256  |
| 0.010                       | 0.0443  | 0.010                    | 0.1220  | 0.010                      | 0.3639  |
| 0.020                       | -0.2124 | 0.020                    | -0.1407 | 0.020                      | 0.0184  |
| 0.040                       | -0.4077 | 0.040                    | -0.3205 | 0.040                      | -0.1746 |
| 0.060                       | -0.4712 | 0.060                    | -0.3871 | 0.060                      | -0.2786 |
| 0.080                       | -0.5083 | 0.080                    | -0.4315 | 0.080                      | -0.3220 |
| 0.100                       | -0.5378 | 0.100                    | -0.4419 | 0.100                      | -0.3529 |
| 0.125                       | -0.4939 | 0.125                    | -0.4638 | 0.125                      | -0.3749 |
| 0.150                       | -0.5757 | 0.150                    | -0.5076 | 0.150                      | -0.4145 |
| 0.175                       | -0.5758 | 0.175                    | -0.5440 | 0.175                      | -0.4420 |
| 0.200                       | -0.6295 | 0.200                    | -0.5712 | 0.200                      | -0.4557 |
| 0.250                       | -0.6474 | 0.250                    | -0.6207 | 0.250                      | -0.5036 |
| 0.300                       | -0.6438 | 0.300                    | -0.6241 | 0.300                      | -0.5151 |
| 0.350                       | -0.5972 | 0.350                    | -0.6065 | 0.350                      | -0.5336 |
| 0.400                       | -0.5487 | 0.400                    | -0.5913 | 0.400                      | -0.5209 |
| 0.450                       | -0.4942 | 0.450                    | -0.5479 | 0.450                      | -0.5053 |
| 0.500                       | -0.4822 | 0.500                    | -0.5268 | 0.500                      | -0.4736 |
| 0.550                       | -0.4252 | 0.550                    | -0.5268 | 0.550                      | -0.4681 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2276  | 0.005 | 0.2043  | 0.005 | 0.0874  |
| 0.010 | -0.0578 | 0.010 | -0.1540 | 0.010 | -0.3569 |

Fight 19 Test point 2

Sweep, deg = 20.1 Mach = 0.70 hp, ft = 9900. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 502.3 Rrho = 4093000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0147  | 0.000                    | 1.0485  | 0.000                      | 1.0241  |
| 0.005                       | 0.3377  | 0.005                    | 0.4292  | 0.005                      | 0.6796  |
| 0.010                       | 0.0581  | 0.010                    | 0.1565  | 0.010                      | 0.4133  |
| 0.020                       | -0.2103 | 0.020                    | -0.1191 | 0.020                      | 0.0557  |
| 0.040                       | -0.4162 | 0.040                    | -0.3085 | 0.040                      | -0.1478 |
| 0.060                       | -0.4871 | 0.060                    | -0.3781 | 0.060                      | -0.2589 |
| 0.080                       | -0.5273 | 0.080                    | -0.4206 | 0.080                      | -0.3064 |
| 0.100                       | -0.5509 | 0.100                    | -0.4411 | 0.100                      | -0.3368 |
| 0.125                       | -0.5120 | 0.125                    | -0.4661 | 0.125                      | -0.3647 |
| 0.150                       | -0.5988 | 0.150                    | -0.5099 | 0.150                      | -0.4041 |
| 0.175                       | -0.5978 | 0.175                    | -0.5504 | 0.175                      | -0.4341 |
| 0.200                       | -0.6546 | 0.200                    | -0.5789 | 0.200                      | -0.4534 |
| 0.250                       | -0.6758 | 0.250                    | -0.6339 | 0.250                      | -0.5098 |
| 0.300                       | -0.6671 | 0.300                    | -0.6384 | 0.300                      | -0.5301 |
| 0.350                       | -0.6125 | 0.350                    | -0.6208 | 0.350                      | -0.5356 |
| 0.400                       | -0.5605 | 0.400                    | -0.6037 | 0.400                      | -0.5276 |
| 0.450                       | -0.5000 | 0.450                    | -0.5530 | 0.450                      | -0.5118 |
| 0.500                       | -0.4837 | 0.500                    | -0.5346 | 0.500                      | -0.4775 |
| 0.550                       | -0.4231 | 0.550                    | -0.5300 | 0.550                      | -0.4679 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2804  | 0.005 | 0.2341  | 0.005 | 0.1072  |
| 0.010 | -0.0152 | 0.010 | -0.1352 | 0.010 | -0.3561 |

Fight 19 Test point 3

Sweep, deg = 20.0 Mach = 0.71 hp, ft = 10100. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 506.4 Rnpu = 4112000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9617  | 0.000                    | 0.9950  | 0.000                      | 0.9798  |
| 0.005                       | 0.2109  | 0.005                    | 0.2883  | 0.005                      | 0.5485  |
| 0.010                       | -0.0627 | 0.010                    | 0.0144  | 0.010                      | 0.2700  |
| 0.020                       | -0.3230 | 0.020                    | -0.2489 | 0.020                      | -0.0867 |
| 0.040                       | -0.5124 | 0.040                    | -0.4233 | 0.040                      | -0.2706 |
| 0.060                       | -0.5683 | 0.060                    | -0.4767 | 0.060                      | -0.3673 |
| 0.080                       | -0.5972 | 0.080                    | -0.5139 | 0.080                      | -0.4028 |
| 0.100                       | -0.6177 | 0.100                    | -0.5169 | 0.100                      | -0.4268 |
| 0.125                       | -0.5558 | 0.125                    | -0.5376 | 0.125                      | -0.4437 |
| 0.150                       | -0.6461 | 0.150                    | -0.5775 | 0.150                      | -0.4754 |
| 0.175                       | -0.6380 | 0.175                    | -0.6118 | 0.175                      | -0.5016 |
| 0.200                       | -0.6972 | 0.200                    | -0.6365 | 0.200                      | -0.5146 |
| 0.250                       | -0.7105 | 0.250                    | -0.6850 | 0.250                      | -0.5583 |
| 0.300                       | -0.6993 | 0.300                    | -0.6837 | 0.300                      | -0.5617 |
| 0.350                       | -0.6391 | 0.350                    | -0.6557 | 0.350                      | -0.5764 |
| 0.400                       | -0.5824 | 0.400                    | -0.6295 | 0.400                      | -0.5584 |
| 0.450                       | -0.5200 | 0.450                    | -0.5762 | 0.450                      | -0.5357 |
| 0.500                       | -0.5017 | 0.500                    | -0.5528 | 0.500                      | -0.4969 |
| 0.550                       | -0.4402 | 0.550                    | -0.5446 | 0.550                      | -0.4838 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3384 | 0.005 | 0.3163  | 0.005 | 0.2087  |
| 0.010 | 0.0625 | 0.010 | -0.0207 | 0.010 | -0.2059 |

Flight 19 Test point 4

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 10200. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 492.2 Rnpu = 4042000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9439  | 0.000                    | 0.9776  | 0.000                      | 0.9759  |
| 0.005                       | 0.0010  | 0.005                    | 0.0827  | 0.005                      | 0.3891  |
| 0.010                       | -0.2823 | 0.010                    | -0.2058 | 0.010                      | 0.0793  |
| 0.020                       | -0.5407 | 0.020                    | -0.4626 | 0.020                      | -0.2928 |
| 0.040                       | -0.7085 | 0.040                    | -0.6168 | 0.040                      | -0.4491 |
| 0.060                       | -0.7398 | 0.060                    | -0.6449 | 0.060                      | -0.5259 |
| 0.080                       | -0.7507 | 0.080                    | -0.6638 | 0.080                      | -0.5455 |
| 0.100                       | -0.7562 | 0.100                    | -0.6519 | 0.100                      | -0.5551 |
| 0.125                       | -0.6526 | 0.125                    | -0.6554 | 0.125                      | -0.5555 |
| 0.150                       | -0.7511 | 0.150                    | -0.6879 | 0.150                      | -0.5748 |
| 0.175                       | -0.7278 | 0.175                    | -0.7115 | 0.175                      | -0.5955 |
| 0.200                       | -0.7873 | 0.200                    | -0.7315 | 0.200                      | -0.6020 |
| 0.250                       | -0.7833 | 0.250                    | -0.7681 | 0.250                      | -0.6230 |
| 0.300                       | -0.7566 | 0.300                    | -0.7480 | 0.300                      | -0.6224 |
| 0.350                       | -0.6820 | 0.350                    | -0.7059 | 0.350                      | -0.6235 |
| 0.400                       | -0.6159 | 0.400                    | -0.6671 | 0.400                      | -0.5997 |
| 0.450                       | -0.5446 | 0.450                    | -0.6064 | 0.450                      | -0.5669 |
| 0.500                       | -0.5218 | 0.500                    | -0.5736 | 0.500                      | -0.5196 |
| 0.550                       | -0.4524 | 0.550                    | -0.5633 | 0.550                      | -0.5018 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4981 | 0.005 | 0.4849 | 0.005 | 0.3956 |
| 0.010 | 0.2427 | 0.010 | 0.1801 | 0.010 | 0.0228 |

Fight 19 Test point 5

Sweep, deg = 24.9 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 501.5 Rnpu = 4099000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8840  | 0.000                    | 0.9187  | 0.000                      | 0.9001  |
| 0.005                       | 0.2469  | 0.005                    | 0.3068  | 0.005                      | 0.5427  |
| 0.010                       | -0.0078 | 0.010                    | 0.0588  | 0.010                      | 0.2898  |
| 0.020                       | -0.2462 | 0.020                    | -0.1853 | 0.020                      | -0.0351 |
| 0.040                       | -0.4094 | 0.040                    | -0.3462 | 0.040                      | -0.2085 |
| 0.060                       | -0.4595 | 0.060                    | -0.3834 | 0.060                      | -0.3027 |
| 0.080                       | -0.4947 | 0.080                    | -0.4204 | 0.080                      | -0.3372 |
| 0.100                       | -0.5181 | 0.100                    | -0.4472 | 0.100                      | -0.3594 |
| 0.125                       | -0.4801 | 0.125                    | -0.4627 | 0.125                      | -0.3621 |
| 0.150                       | -0.5537 | 0.150                    | -0.4955 | 0.150                      | -0.4000 |
| 0.175                       | -0.5500 | 0.175                    | -0.5243 | 0.175                      | -0.4249 |
| 0.200                       | -0.5949 | 0.200                    | -0.5483 | 0.200                      | -0.4341 |
| 0.250                       | -0.6095 | 0.250                    | -0.5865 | 0.250                      | -0.4850 |
| 0.300                       | -0.6058 | 0.300                    | -0.5877 | 0.300                      | -0.4930 |
| 0.350                       | -0.5601 | 0.350                    | -0.5674 | 0.350                      | -0.5047 |
| 0.400                       | -0.5183 | 0.400                    | -0.5517 | 0.400                      | -0.4928 |
| 0.450                       | -0.4674 | 0.450                    | -0.5134 | 0.450                      | -0.4743 |
| 0.500                       | -0.4564 | 0.500                    | -0.4964 | 0.500                      | -0.4446 |
| 0.550                       | -0.4031 | 0.550                    | -0.4973 | 0.550                      | -0.4467 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2317  | 0.005 | 0.2155  | 0.005 | 0.1071  |
| 0.010 | -0.0337 | 0.010 | -0.1100 | 0.010 | -0.2966 |

Flight 19 Test point 6

Sweep, deg = 24.9 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 498.2 Rnpu = 4081000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8863  | 0.000                    | 0.9194  | 0.000                      | 0.9079  |
| 0.005                       | 0.1380  | 0.005                    | 0.2067  | 0.005                      | 0.4662  |
| 0.010                       | -0.1222 | 0.010                    | -0.0538 | 0.010                      | 0.1982  |
| 0.020                       | -0.3586 | 0.020                    | -0.2953 | 0.020                      | -0.1361 |
| 0.040                       | -0.5194 | 0.040                    | -0.4421 | 0.040                      | -0.2990 |
| 0.060                       | -0.5445 | 0.060                    | -0.4763 | 0.060                      | -0.3831 |
| 0.080                       | -0.5684 | 0.080                    | -0.4953 | 0.080                      | -0.4098 |
| 0.100                       | -0.5893 | 0.100                    | -0.5157 | 0.100                      | -0.4226 |
| 0.125                       | -0.5314 | 0.125                    | -0.5256 | 0.125                      | -0.4208 |
| 0.150                       | -0.6109 | 0.150                    | -0.5542 | 0.150                      | -0.4507 |
| 0.175                       | -0.5988 | 0.175                    | -0.5800 | 0.175                      | -0.4728 |
| 0.200                       | -0.6441 | 0.200                    | -0.5958 | 0.200                      | -0.4786 |
| 0.250                       | -0.6510 | 0.250                    | -0.6331 | 0.250                      | -0.5257 |
| 0.300                       | -0.6419 | 0.300                    | -0.6245 | 0.300                      | -0.5268 |
| 0.350                       | -0.5888 | 0.350                    | -0.6001 | 0.350                      | -0.5331 |
| 0.400                       | -0.5413 | 0.400                    | -0.5797 | 0.400                      | -0.5159 |
| 0.450                       | -0.4857 | 0.450                    | -0.5341 | 0.450                      | -0.4935 |
| 0.500                       | -0.4723 | 0.500                    | -0.5131 | 0.500                      | -0.4597 |
| 0.550                       | -0.4132 | 0.550                    | -0.5108 | 0.550                      | -0.4583 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3294 | 0.005 | 0.3178 | 0.005 | 0.2163  |
| 0.010 | 0.0744 | 0.010 | 0.0085 | 0.010 | -0.1622 |

Fight 19 Test point 7

Sweep, deg = 24.9 Mach = 0.70 hp, ft = 10100. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.2  $Q_{ref}$ , lb/ft<sup>2</sup> = 497.6  $R_{ref}$  = 4076000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8757  | 0.000                    | 0.9088  | 0.000                      | 0.9065  |
| 0.005                       | -0.0113 | 0.005                    | 0.0574  | 0.005                      | 0.3503  |
| 0.010                       | -0.2741 | 0.010                    | -0.2117 | 0.010                      | 0.0581  |
| 0.020                       | -0.5105 | 0.020                    | -0.4485 | 0.020                      | -0.2857 |
| 0.040                       | -0.6580 | 0.040                    | -0.5804 | 0.040                      | -0.4291 |
| 0.060                       | -0.6807 | 0.060                    | -0.5966 | 0.060                      | -0.4964 |
| 0.080                       | -0.6713 | 0.080                    | -0.6011 | 0.080                      | -0.5076 |
| 0.100                       | -0.6828 | 0.100                    | -0.6063 | 0.100                      | -0.5181 |
| 0.125                       | -0.6026 | 0.125                    | -0.6099 | 0.125                      | -0.5187 |
| 0.150                       | -0.6869 | 0.150                    | -0.6332 | 0.150                      | -0.5166 |
| 0.175                       | -0.6648 | 0.175                    | -0.6517 | 0.175                      | -0.5404 |
| 0.200                       | -0.7117 | 0.200                    | -0.6693 | 0.200                      | -0.5407 |
| 0.250                       | -0.7114 | 0.250                    | -0.6947 | 0.250                      | -0.5809 |
| 0.300                       | -0.6906 | 0.300                    | -0.6818 | 0.300                      | -0.5744 |
| 0.350                       | -0.6274 | 0.350                    | -0.6461 | 0.350                      | -0.5758 |
| 0.400                       | -0.5720 | 0.400                    | -0.6154 | 0.400                      | -0.5529 |
| 0.450                       | -0.5109 | 0.450                    | -0.5619 | 0.450                      | -0.5231 |
| 0.500                       | -0.4920 | 0.500                    | -0.5329 | 0.500                      | -0.4810 |
| 0.550                       | -0.4283 | 0.550                    | -0.5263 | 0.550                      | -0.4742 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4475 | 0.005 | 0.4408 | 0.005 | 0.3537 |
| 0.010 | 0.2078 | 0.010 | 0.1558 | 0.010 | 0.0076 |



Fight 19 Test point 8

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 499.1 Rnpu = 4088000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7955  | 0.000                    | 0.8317  | 0.000                      | 0.8185  |
| 0.005                       | 0.1464  | 0.005                    | 0.2053  | 0.005                      | 0.4389  |
| 0.010                       | -0.0878 | 0.010                    | -0.0221 | 0.010                      | 0.2004  |
| 0.020                       | -0.2922 | 0.020                    | -0.2466 | 0.020                      | -0.0926 |
| 0.040                       | -0.4292 | 0.040                    | -0.3642 | 0.040                      | -0.2404 |
| 0.060                       | -0.4691 | 0.060                    | -0.4080 | 0.060                      | -0.3169 |
| 0.080                       | -0.4910 | 0.080                    | -0.4336 | 0.080                      | -0.3413 |
| 0.100                       | -0.5035 | 0.100                    | -0.4467 | 0.100                      | -0.3595 |
| 0.125                       | -0.4607 | 0.125                    | -0.4554 | 0.125                      | -0.3755 |
| 0.150                       | -0.5275 | 0.150                    | -0.4799 | 0.150                      | -0.3989 |
| 0.175                       | -0.5193 | 0.175                    | -0.5029 | 0.175                      | -0.4176 |
| 0.200                       | -0.5570 | 0.200                    | -0.5183 | 0.200                      | -0.4211 |
| 0.250                       | -0.5625 | 0.250                    | -0.5458 | 0.250                      | -0.4605 |
| 0.300                       | -0.5578 | 0.300                    | -0.5409 | 0.300                      | -0.4611 |
| 0.350                       | -0.5173 | 0.350                    | -0.5195 | 0.350                      | -0.4683 |
| 0.400                       | -0.4774 | 0.400                    | -0.5082 | 0.400                      | -0.4545 |
| 0.450                       | -0.4334 | 0.450                    | -0.4693 | 0.450                      | -0.4363 |
| 0.500                       | -0.4243 | 0.500                    | -0.4566 | 0.500                      | -0.4096 |
| 0.550                       | -0.3774 | 0.550                    | -0.4581 | 0.550                      | -0.4194 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2467 | 0.005 | 0.2526  | 0.005 | 0.1507  |
| 0.010 | 0.0118 | 0.010 | -0.0324 | 0.010 | -0.1852 |

Fight 19 Test point 9

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 10200. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 494.9 Rnpu = 4054000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7962  | 0.000                    | 0.8319  | 0.000                      | 0.8226  |
| 0.005                       | 0.1148  | 0.005                    | 0.1777  | 0.005                      | 0.4156  |
| 0.010                       | -0.1185 | 0.010                    | -0.0504 | 0.010                      | 0.1721  |
| 0.020                       | -0.3223 | 0.020                    | -0.2743 | 0.020                      | -0.1205 |
| 0.040                       | -0.4535 | 0.040                    | -0.3878 | 0.040                      | -0.2650 |
| 0.060                       | -0.4897 | 0.060                    | -0.4305 | 0.060                      | -0.3365 |
| 0.080                       | -0.5092 | 0.080                    | -0.4526 | 0.080                      | -0.3582 |
| 0.100                       | -0.5220 | 0.100                    | -0.4651 | 0.100                      | -0.3776 |
| 0.125                       | -0.4727 | 0.125                    | -0.4717 | 0.125                      | -0.3911 |
| 0.150                       | -0.5373 | 0.150                    | -0.4922 | 0.150                      | -0.4128 |
| 0.175                       | -0.5277 | 0.175                    | -0.5141 | 0.175                      | -0.4274 |
| 0.200                       | -0.5641 | 0.200                    | -0.5305 | 0.200                      | -0.4300 |
| 0.250                       | -0.5722 | 0.250                    | -0.5592 | 0.250                      | -0.4719 |
| 0.300                       | -0.5672 | 0.300                    | -0.5500 | 0.300                      | -0.4698 |
| 0.350                       | -0.5217 | 0.350                    | -0.5261 | 0.350                      | -0.4754 |
| 0.400                       | -0.4822 | 0.400                    | -0.5129 | 0.400                      | -0.4592 |
| 0.450                       | -0.4361 | 0.450                    | -0.4763 | 0.450                      | -0.4409 |
| 0.500                       | -0.4278 | 0.500                    | -0.4625 | 0.500                      | -0.4122 |
| 0.550                       | -0.3794 | 0.550                    | -0.4613 | 0.550                      | -0.4186 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.2774 | 0.005 | 0.2794 | 0.005 | 0.1825  |
| 0.010 | 0.0444 | 0.010 | 0.0006 | 0.010 | -0.1471 |

Fight 19 Test point 10

Sweep, deg = 30.1 Mach = 0.70 hp, ft = 10200. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 497.8 Rnpu = 4063060.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7844  | 0.000                    | 0.8144  | 0.000                      | 0.8151  |
| 0.005                       | -0.0416 | 0.005                    | 0.0087  | 0.005                      | 0.2833  |
| 0.010                       | -0.2794 | 0.010                    | -0.2338 | 0.010                      | 0.0136  |
| 0.020                       | -0.4827 | 0.020                    | -0.4403 | 0.020                      | -0.2954 |
| 0.040                       | -0.5901 | 0.040                    | -0.5221 | 0.040                      | -0.4135 |
| 0.060                       | -0.6107 | 0.060                    | -0.5484 | 0.060                      | -0.4573 |
| 0.080                       | -0.6164 | 0.080                    | -0.5600 | 0.080                      | -0.4573 |
| 0.100                       | -0.6189 | 0.100                    | -0.5615 | 0.100                      | -0.4690 |
| 0.125                       | -0.5471 | 0.125                    | -0.5564 | 0.125                      | -0.4736 |
| 0.150                       | -0.6172 | 0.150                    | -0.5735 | 0.150                      | -0.4871 |
| 0.175                       | -0.5967 | 0.175                    | -0.5910 | 0.175                      | -0.5002 |
| 0.200                       | -0.6335 | 0.200                    | -0.5994 | 0.200                      | -0.4971 |
| 0.250                       | -0.6327 | 0.250                    | -0.6200 | 0.250                      | -0.5260 |
| 0.300                       | -0.6180 | 0.300                    | -0.6056 | 0.300                      | -0.5166 |
| 0.350                       | -0.5646 | 0.350                    | -0.5724 | 0.350                      | -0.5146 |
| 0.400                       | -0.5180 | 0.400                    | -0.5516 | 0.400                      | -0.4954 |
| 0.450                       | -0.4626 | 0.450                    | -0.5081 | 0.450                      | -0.4693 |
| 0.500                       | -0.4509 | 0.500                    | -0.4859 | 0.500                      | -0.4355 |
| 0.550                       | -0.3956 | 0.550                    | -0.4839 | 0.550                      | -0.4386 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3982 | 0.005 | 0.4043 | 0.005 | 0.3285 |
| 0.010 | 0.1787 | 0.010 | 0.1488 | 0.010 | 0.0161 |

Fight 19 Test point 11

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 502.2 Rnpu = 4099000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7147  | 0.000                    | 0.7435  | 0.000                      | 0.7364  |
| 0.005                       | 0.0886  | 0.005                    | 0.1267  | 0.005                      | 0.3506  |
| 0.010                       | -0.1249 | 0.010                    | -0.0793 | 0.010                      | 0.1287  |
| 0.020                       | -0.3113 | 0.020                    | -0.2797 | 0.020                      | -0.1383 |
| 0.040                       | -0.4265 | 0.040                    | -0.3728 | 0.040                      | -0.2626 |
| 0.060                       | -0.4545 | 0.060                    | -0.4037 | 0.060                      | -0.3229 |
| 0.080                       | -0.4706 | 0.080                    | -0.4225 | 0.080                      | -0.3398 |
| 0.100                       | -0.4776 | 0.100                    | -0.4312 | 0.100                      | -0.3543 |
| 0.125                       | -0.4317 | 0.125                    | -0.4343 | 0.125                      | -0.3640 |
| 0.150                       | -0.4902 | 0.150                    | -0.4488 | 0.150                      | -0.3817 |
| 0.175                       | -0.4823 | 0.175                    | -0.4672 | 0.175                      | -0.3951 |
| 0.200                       | -0.5121 | 0.200                    | -0.4789 | 0.200                      | -0.3955 |
| 0.250                       | -0.5151 | 0.250                    | -0.5000 | 0.250                      | -0.4281 |
| 0.300                       | -0.5112 | 0.300                    | -0.4940 | 0.300                      | -0.4239 |
| 0.350                       | -0.4705 | 0.350                    | -0.4744 | 0.350                      | -0.4298 |
| 0.400                       | -0.4413 | 0.400                    | -0.4611 | 0.400                      | -0.4189 |
| 0.450                       | -0.3984 | 0.450                    | -0.4703 | 0.450                      | -0.4032 |
| 0.500                       | -0.3888 | 0.500                    | -0.4176 | 0.500                      | -0.3818 |
| 0.550                       | -0.3481 | 0.550                    | -0.4220 | 0.550                      | -0.3979 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.2513 | 0.005 | 0.2561 | 0.005 | 0.1688  |
| 0.010 | 0.0420 | 0.010 | 0.0070 | 0.010 | -0.1202 |

Flight 19 Test point 12

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 502.9 Rnpu = 4102000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7012  | 0.000                    | 0.7263  | 0.000                      | 0.7311  |
| 0.005                       | -0.0718 | 0.005                    | -0.0326 | 0.005                      | 0.2233  |
| 0.010                       | -0.2897 | 0.010                    | -0.2446 | 0.010                      | -0.0181 |
| 0.020                       | -0.4675 | 0.020                    | -0.4338 | 0.020                      | -0.2891 |
| 0.040                       | -0.5549 | 0.040                    | -0.5037 | 0.040                      | -0.3879 |
| 0.060                       | -0.5644 | 0.060                    | -0.5175 | 0.060                      | -0.4298 |
| 0.080                       | -0.5668 | 0.080                    | -0.5216 | 0.080                      | -0.4338 |
| 0.100                       | -0.5658 | 0.100                    | -0.5182 | 0.100                      | -0.4394 |
| 0.125                       | -0.4990 | 0.125                    | -0.5109 | 0.125                      | -0.4431 |
| 0.150                       | -0.5583 | 0.150                    | -0.5225 | 0.150                      | -0.4524 |
| 0.175                       | -0.5403 | 0.175                    | -0.5341 | 0.175                      | -0.4582 |
| 0.200                       | -0.5697 | 0.200                    | -0.5404 | 0.200                      | -0.4519 |
| 0.250                       | -0.5689 | 0.250                    | -0.5580 | 0.250                      | -0.4780 |
| 0.300                       | -0.5567 | 0.300                    | -0.5431 | 0.300                      | -0.4683 |
| 0.350                       | -0.5095 | 0.350                    | -0.5127 | 0.350                      | -0.4680 |
| 0.400                       | -0.4697 | 0.400                    | -0.4948 | 0.400                      | -0.4475 |
| 0.450                       | -0.4235 | 0.450                    | -0.4559 | 0.450                      | -0.4244 |
| 0.500                       | -0.4097 | 0.500                    | -0.4394 | 0.500                      | -0.3979 |
| 0.550                       | -0.3631 | 0.550                    | -0.4402 | 0.550                      | -0.4112 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3690 | 0.005 | 0.3837 | 0.005 | 0.3130 |
| 0.010 | 0.1742 | 0.010 | 0.1520 | 0.010 | 0.0504 |

Fight 19 Test point 13

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 4.7  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 171.1 Rnpu = 1678000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.3933  | 0.000                    | 0.3778  | 0.000                      | 0.4177  |
| 0.005                       | -1.0119 | 0.005                    | -1.0191 | 0.005                      | -0.6522 |
| 0.010                       | -1.2441 | 0.010                    | -1.3000 | 0.010                      | -1.0293 |
| 0.020                       | -1.4263 | 0.020                    | -1.4504 | 0.020                      | -1.3568 |
| 0.040                       | -1.4789 | 0.040                    | -1.5137 | 0.040                      | -1.4609 |
| 0.060                       | -1.4829 | 0.060                    | -1.4741 | 0.060                      | -1.2793 |
| 0.080                       | -1.0256 | 0.080                    | -1.0606 | 0.080                      | -0.8695 |
| 0.100                       | -0.9322 | 0.100                    | -0.9221 | 0.100                      | -0.8364 |
| 0.125                       | -0.7886 | 0.125                    | -0.8631 | 0.125                      | -0.8615 |
| 0.150                       | -0.8810 | 0.150                    | -0.8626 | 0.150                      | -0.8248 |
| 0.175                       | -0.8011 | 0.175                    | -0.8490 | 0.175                      | -0.7825 |
| 0.200                       | -0.8332 | 0.200                    | -0.8319 | 0.200                      | -0.7290 |
| 0.250                       | -0.7885 | 0.250                    | -0.8126 | 0.250                      | -0.7051 |
| 0.300                       | -0.7208 | 0.300                    | -0.7349 | 0.300                      | -0.6466 |
| 0.350                       | -0.6387 | 0.350                    | -0.6519 | 0.350                      | -0.6078 |
| 0.400                       | -0.5735 | 0.400                    | -0.6178 | 0.400                      | -0.5565 |
| 0.450                       | -0.4992 | 0.450                    | -0.5365 | 0.450                      | -0.5084 |
| 0.500                       | -0.4703 | 0.500                    | -0.5053 | 0.500                      | -0.4516 |
| 0.550                       | -0.3827 | 0.550                    | -0.4570 | 0.550                      | -0.4248 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.6794 | 0.005 | 0.7435 | 0.005 | 0.7225 |
| 0.010 | 0.5815 | 0.010 | 0.6219 | 0.010 | 0.5864 |

Fight 19 Test point 14

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 35400. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 169.1 Rnpu = 1653000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7185  | 0.000                    | 0.7701  | 0.000                      | 0.7618  |
| 0.005                       | 0.1470  | 0.005                    | 0.1651  | 0.005                      | 0.3869  |
| 0.010                       | -0.0651 | 0.010                    | -0.0139 | 0.010                      | 0.1657  |
| 0.020                       | -0.2470 | 0.020                    | -0.2209 | 0.020                      | -0.0899 |
| 0.040                       | -0.3700 | 0.040                    | -0.3299 | 0.040                      | -0.2247 |
| 0.060                       | -0.4042 | 0.060                    | -0.3456 | 0.060                      | -0.2834 |
| 0.080                       | -0.4224 | 0.080                    | -0.3615 | 0.080                      | -0.3000 |
| 0.100                       | -0.4232 | 0.100                    | -0.3682 | 0.100                      | -0.3164 |
| 0.125                       | -0.4013 | 0.125                    | -0.3711 | 0.125                      | -0.3292 |
| 0.150                       | -0.4537 | 0.150                    | -0.4016 | 0.150                      | -0.3506 |
| 0.175                       | -0.4475 | 0.175                    | -0.4261 | 0.175                      | -0.3643 |
| 0.200                       | -0.4899 | 0.200                    | -0.4435 | 0.200                      | -0.3537 |
| 0.250                       | -0.4891 | 0.250                    | -0.4750 | 0.250                      | -0.3956 |
| 0.300                       | -0.4626 | 0.300                    | -0.4643 | 0.300                      | -0.3895 |
| 0.350                       | -0.4443 | 0.350                    | -0.4242 | 0.350                      | -0.3987 |
| 0.400                       | -0.4161 | 0.400                    | -0.4334 | 0.400                      | -0.3940 |
| 0.450                       | -0.3678 | 0.450                    | -0.3900 | 0.450                      | -0.3779 |
| 0.500                       | -0.3654 | 0.500                    | -0.3922 | 0.500                      | -0.3515 |
| 0.550                       | -0.3225 | 0.550                    | -0.3825 | 0.550                      | -0.3582 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.1846  | 0.005 | 0.2337  | 0.005 | 0.1528  |
| 0.010 | -0.0233 | 0.010 | -0.0359 | 0.010 | -0.1688 |

Fight 19 Test point 15

Sweep, deg = 34.5 Mach = 0.70 hp, ft = 35500. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 167.2 Rnpu = 1639000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7117  | 0.000                    | 0.7544  | 0.000                      | 0.7546  |
| 0.005                       | -0.0179 | 0.005                    | -0.0071 | 0.005                      | 0.2521  |
| 0.010                       | -0.2321 | 0.010                    | -0.1864 | 0.010                      | -0.0013 |
| 0.020                       | -0.3997 | 0.020                    | -0.3737 | 0.020                      | -0.2515 |
| 0.040                       | -0.5017 | 0.040                    | -0.4636 | 0.040                      | -0.3606 |
| 0.060                       | -0.5235 | 0.060                    | -0.4629 | 0.060                      | -0.3993 |
| 0.080                       | -0.5166 | 0.080                    | -0.4721 | 0.080                      | -0.4054 |
| 0.100                       | -0.5074 | 0.100                    | -0.4676 | 0.100                      | -0.4112 |
| 0.125                       | -0.4642 | 0.125                    | -0.4647 | 0.125                      | -0.4074 |
| 0.150                       | -0.5218 | 0.150                    | -0.4777 | 0.150                      | -0.4261 |
| 0.175                       | -0.5116 | 0.175                    | -0.4954 | 0.175                      | -0.4376 |
| 0.200                       | -0.5442 | 0.200                    | -0.5089 | 0.200                      | -0.4197 |
| 0.250                       | -0.5399 | 0.250                    | -0.5343 | 0.250                      | -0.4528 |
| 0.300                       | -0.5138 | 0.300                    | -0.5123 | 0.300                      | -0.4324 |
| 0.350                       | -0.4852 | 0.350                    | -0.4642 | 0.350                      | -0.4340 |
| 0.400                       | -0.4478 | 0.400                    | -0.4732 | 0.400                      | -0.4222 |
| 0.450                       | -0.3973 | 0.450                    | -0.4164 | 0.450                      | -0.3970 |
| 0.500                       | -0.3867 | 0.500                    | -0.4148 | 0.500                      | -0.3671 |
| 0.550                       | -0.3317 | 0.550                    | -0.4035 | 0.550                      | -0.3728 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3211 | 0.005 | 0.3764 | 0.005 | 0.3138 |
| 0.010 | 0.1265 | 0.010 | 0.1314 | 0.010 | 0.0158 |



Fight 19 Test point 16

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 4.0  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 173.0 Rnpu = 1685000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.5766  | 0.000                    | 0.5897  | 0.000                      | 0.6292  |
| 0.005                       | -0.7708 | 0.005                    | -0.7570 | 0.005                      | -0.3791 |
| 0.010                       | -1.0161 | 0.010                    | -1.0428 | 0.010                      | -0.7503 |
| 0.020                       | -1.2276 | 0.020                    | -1.2093 | 0.020                      | -1.1530 |
| 0.040                       | -1.3489 | 0.040                    | -1.3561 | 0.040                      | -1.1307 |
| 0.060                       | -1.3754 | 0.060                    | -1.3390 | 0.060                      | -1.1248 |
| 0.080                       | -1.2508 | 0.080                    | -1.2213 | 0.080                      | -1.0300 |
| 0.100                       | -0.7798 | 0.100                    | -0.9126 | 0.100                      | -0.8088 |
| 0.125                       | -0.8213 | 0.125                    | -0.8601 | 0.125                      | -0.8092 |
| 0.150                       | -0.8789 | 0.150                    | -0.8746 | 0.150                      | -0.9229 |
| 0.175                       | -0.8718 | 0.175                    | -0.8737 | 0.175                      | -0.7753 |
| 0.200                       | -0.8571 | 0.200                    | -0.8808 | 0.200                      | -0.7485 |
| 0.250                       | -0.8418 | 0.250                    | -0.8882 | 0.250                      | -0.7466 |
| 0.300                       | -0.7800 | 0.300                    | -0.7964 | 0.300                      | -0.6816 |
| 0.350                       | -0.6924 | 0.350                    | -0.7019 | 0.350                      | -0.6552 |
| 0.400                       | -0.6171 | 0.400                    | -0.6719 | 0.400                      | -0.5974 |
| 0.450                       | -0.5317 | 0.450                    | -0.5811 | 0.450                      | -0.5543 |
| 0.500                       | -0.4985 | 0.500                    | -0.5427 | 0.500                      | -0.4858 |
| 0.550                       | -0.4124 | 0.550                    | -0.5045 | 0.550                      | -0.4484 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.7050 | 0.005 | 0.7638 | 0.005 | 0.7396 |
| 0.010 | 0.5732 | 0.010 | 0.5869 | 0.010 | 0.5445 |

Flight 19 Test point 17

Sweep, deg = 29.7 Mach = 0.70 hp, ft = 34600. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 171.8 Rnpu = 1686000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8059  | 0.000                    | 0.8549  | 0.000                      | 0.8416  |
| 0.005                       | 0.1666  | 0.005                    | 0.2015  | 0.005                      | 0.4471  |
| 0.010                       | -0.0673 | 0.010                    | -0.0016 | 0.010                      | 0.1911  |
| 0.020                       | -0.2668 | 0.020                    | -0.2306 | 0.020                      | -0.0903 |
| 0.040                       | -0.4169 | 0.040                    | -0.3514 | 0.040                      | -0.2469 |
| 0.060                       | -0.4575 | 0.060                    | -0.3843 | 0.060                      | -0.3072 |
| 0.080                       | -0.4771 | 0.080                    | -0.4051 | 0.080                      | -0.3336 |
| 0.100                       | -0.4716 | 0.100                    | -0.4181 | 0.100                      | -0.3477 |
| 0.125                       | -0.4400 | 0.125                    | -0.4268 | 0.125                      | -0.3554 |
| 0.150                       | -0.5086 | 0.150                    | -0.4516 | 0.150                      | -0.3900 |
| 0.175                       | -0.5031 | 0.175                    | -0.4796 | 0.175                      | -0.4111 |
| 0.200                       | -0.5382 | 0.200                    | -0.4924 | 0.200                      | -0.4003 |
| 0.250                       | -0.5428 | 0.250                    | -0.5386 | 0.250                      | -0.4410 |
| 0.300                       | -0.5212 | 0.300                    | -0.5215 | 0.300                      | -0.4290 |
| 0.350                       | -0.4987 | 0.350                    | -0.4827 | 0.350                      | -0.4395 |
| 0.400                       | -0.4614 | 0.400                    | -0.4946 | 0.400                      | -0.4322 |
| 0.450                       | -0.4099 | 0.450                    | -0.4376 | 0.450                      | -0.4165 |
| 0.500                       | -0.3995 | 0.500                    | -0.4343 | 0.500                      | -0.3872 |
| 0.550                       | -0.3484 | 0.550                    | -0.4150 | 0.550                      | -0.3863 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2346 | 0.005 | 0.2630  | 0.005 | 0.1797  |
| 0.010 | 0.0077 | 0.010 | -0.0323 | 0.010 | -0.1759 |

Flight 19 Test point 18

Sweep, deg = 29.7 Mach = 0.70 hp, ft = 34800. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 171.3 Rnpu = 1678000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7926  | 0.000                    | 0.8366  | 0.000                      | 0.8403  |
| 0.005                       | 0.0020  | 0.005                    | 0.0323  | 0.005                      | 0.3148  |
| 0.010                       | -0.2361 | 0.010                    | -0.1768 | 0.010                      | 0.0391  |
| 0.020                       | -0.4298 | 0.020                    | -0.3910 | 0.020                      | -0.2496 |
| 0.040                       | -0.5488 | 0.040                    | -0.5024 | 0.040                      | -0.3779 |
| 0.060                       | -0.5790 | 0.060                    | -0.5049 | 0.060                      | -0.4267 |
| 0.080                       | -0.5811 | 0.080                    | -0.5218 | 0.080                      | -0.4317 |
| 0.100                       | -0.5602 | 0.100                    | -0.5189 | 0.100                      | -0.4415 |
| 0.125                       | -0.5061 | 0.125                    | -0.5133 | 0.125                      | -0.4446 |
| 0.150                       | -0.5769 | 0.150                    | -0.5415 | 0.150                      | -0.4661 |
| 0.175                       | -0.5658 | 0.175                    | -0.5602 | 0.175                      | -0.4853 |
| 0.200                       | -0.6034 | 0.200                    | -0.5643 | 0.200                      | -0.4694 |
| 0.250                       | -0.5976 | 0.250                    | -0.5979 | 0.250                      | -0.5002 |
| 0.300                       | -0.5744 | 0.300                    | -0.5727 | 0.300                      | -0.4912 |
| 0.350                       | -0.5382 | 0.350                    | -0.5288 | 0.350                      | -0.4932 |
| 0.400                       | -0.4948 | 0.400                    | -0.5352 | 0.400                      | -0.4667 |
| 0.450                       | -0.4371 | 0.450                    | -0.4678 | 0.450                      | -0.4455 |
| 0.500                       | -0.4257 | 0.500                    | -0.4581 | 0.500                      | -0.4133 |
| 0.550                       | -0.3590 | 0.550                    | -0.4455 | 0.550                      | -0.4089 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3712 | 0.005 | 0.4072 | 0.005 | 0.3306 |
| 0.010 | 0.1535 | 0.010 | 0.1330 | 0.010 | 0.0064 |

Fight 19 Test point 19

Sweep, deg = 25.1 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 3.7  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 172.1 Rnpu = 1680000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7005  | 0.000                    | 0.7296  | 0.000                      | 0.7644  |
| 0.005                       | -0.6347 | 0.005                    | -0.6103 | 0.005                      | -0.2222 |
| 0.010                       | -0.9146 | 0.010                    | -0.8979 | 0.010                      | -0.5994 |
| 0.020                       | -1.1523 | 0.020                    | -1.1004 | 0.020                      | -1.0226 |
| 0.040                       | -1.2986 | 0.040                    | -1.2835 | 0.040                      | -1.0674 |
| 0.060                       | -1.3466 | 0.060                    | -1.2818 | 0.060                      | -1.0975 |
| 0.080                       | -1.2821 | 0.080                    | -1.2276 | 0.080                      | -1.0220 |
| 0.100                       | -1.2164 | 0.100                    | -1.1372 | 0.100                      | -0.9597 |
| 0.125                       | -0.9664 | 0.125                    | -0.8312 | 0.125                      | -0.7840 |
| 0.150                       | -0.8336 | 0.150                    | -0.8666 | 0.150                      | -0.9012 |
| 0.175                       | -0.8442 | 0.175                    | -0.9662 | 0.175                      | -1.0099 |
| 0.200                       | -0.9994 | 0.200                    | -0.9966 | 0.200                      | -0.7662 |
| 0.250                       | -0.9003 | 0.250                    | -0.9611 | 0.250                      | -0.7850 |
| 0.300                       | -0.8290 | 0.300                    | -0.8566 | 0.300                      | -0.7314 |
| 0.350                       | -0.7358 | 0.350                    | -0.7522 | 0.350                      | -0.7036 |
| 0.400                       | -0.6571 | 0.400                    | -0.7116 | 0.400                      | -0.6429 |
| 0.450                       | -0.5658 | 0.450                    | -0.6144 | 0.450                      | -0.5962 |
| 0.500                       | -0.5287 | 0.500                    | -0.5787 | 0.500                      | -0.5239 |
| 0.550                       | -0.4377 | 0.550                    | -0.5331 | 0.550                      | -0.4823 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.7468 | 0.005 | 0.7929 | 0.005 | 0.7548 |
| 0.010 | 0.5695 | 0.010 | 0.5857 | 0.010 | 0.5227 |

Fight 19 Test point 20

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 34800. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 172.1 Rnpu = 1682000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8898  | 0.000                    | 0.9354  | 0.000                      | 0.9218  |
| 0.005                       | 0.1721  | 0.005                    | 0.2217  | 0.005                      | 0.4799  |
| 0.010                       | -0.0876 | 0.010                    | -0.0104 | 0.010                      | 0.2090  |
| 0.020                       | -0.3112 | 0.020                    | -0.2530 | 0.020                      | -0.1039 |
| 0.040                       | -0.4701 | 0.040                    | -0.4077 | 0.040                      | -0.2615 |
| 0.060                       | -0.5173 | 0.060                    | -0.4375 | 0.060                      | -0.3455 |
| 0.080                       | -0.5473 | 0.080                    | -0.4654 | 0.080                      | -0.3679 |
| 0.100                       | -0.5416 | 0.100                    | -0.4727 | 0.100                      | -0.3947 |
| 0.125                       | -0.5069 | 0.125                    | -0.4823 | 0.125                      | -0.4065 |
| 0.150                       | -0.5695 | 0.150                    | -0.5199 | 0.150                      | -0.4485 |
| 0.175                       | -0.5683 | 0.175                    | -0.5550 | 0.175                      | -0.4639 |
| 0.200                       | -0.6158 | 0.200                    | -0.5611 | 0.200                      | -0.4531 |
| 0.250                       | -0.6181 | 0.250                    | -0.6106 | 0.250                      | -0.4972 |
| 0.300                       | -0.5997 | 0.300                    | -0.5967 | 0.300                      | -0.4896 |
| 0.350                       | -0.5617 | 0.350                    | -0.5551 | 0.350                      | -0.5055 |
| 0.400                       | -0.5232 | 0.400                    | -0.5607 | 0.400                      | -0.4816 |
| 0.450                       | -0.4559 | 0.450                    | -0.4923 | 0.450                      | -0.4654 |
| 0.500                       | -0.4357 | 0.500                    | -0.4874 | 0.500                      | -0.4310 |
| 0.550                       | -0.3769 | 0.550                    | -0.4690 | 0.550                      | -0.4230 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3087 | 0.005 | 0.3269 | 0.005 | 0.2328  |
| 0.010 | 0.0548 | 0.010 | 0.0142 | 0.010 | -0.1507 |

Fight 19 Test point 21

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 34600. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.5 QBAR, lb/ft<sup>2</sup> = 174.1 Rnpu = 1700000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8752  | 0.000                    | 0.9233  | 0.000                      | 0.9218  |
| 0.005                       | 0.0493  | 0.005                    | 0.0920  | 0.005                      | 0.3806  |
| 0.010                       | -0.2051 | 0.010                    | -0.1416 | 0.010                      | 0.0906  |
| 0.020                       | -0.4284 | 0.020                    | -0.3773 | 0.020                      | -0.2213 |
| 0.040                       | -0.5777 | 0.040                    | -0.5157 | 0.040                      | -0.3786 |
| 0.060                       | -0.6125 | 0.060                    | -0.5372 | 0.060                      | -0.4344 |
| 0.080                       | -0.6203 | 0.080                    | -0.5533 | 0.080                      | -0.4495 |
| 0.100                       | -0.6168 | 0.100                    | -0.5577 | 0.100                      | -0.4666 |
| 0.125                       | -0.5581 | 0.125                    | -0.5585 | 0.125                      | -0.4779 |
| 0.150                       | -0.6414 | 0.150                    | -0.5864 | 0.150                      | -0.5154 |
| 0.175                       | -0.6259 | 0.175                    | -0.6143 | 0.175                      | -0.5253 |
| 0.200                       | -0.6738 | 0.200                    | -0.6214 | 0.200                      | -0.5084 |
| 0.250                       | -0.6632 | 0.250                    | -0.6664 | 0.250                      | -0.5431 |
| 0.300                       | -0.6410 | 0.300                    | -0.6332 | 0.300                      | -0.5279 |
| 0.350                       | -0.5938 | 0.350                    | -0.5853 | 0.350                      | -0.5358 |
| 0.400                       | -0.5455 | 0.400                    | -0.5897 | 0.400                      | -0.5144 |
| 0.450                       | -0.4799 | 0.450                    | -0.5101 | 0.450                      | -0.4880 |
| 0.500                       | -0.4619 | 0.500                    | -0.4984 | 0.500                      | -0.4429 |
| 0.550                       | -0.3863 | 0.550                    | -0.4834 | 0.550                      | -0.4297 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4069 | 0.005 | 0.4257 | 0.005 | 0.3435  |
| 0.010 | 0.1608 | 0.010 | 0.1252 | 0.010 | -0.0126 |

Fight 19 Test point 22

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 3.2  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 170.8 Rnpu = 1674000.

Upper surface

| BL 200 1/2<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-------------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                           | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                         | 0.8323  | 0.000                    | 0.8720  | 0.000                      | 0.8928  |
| 0.005                         | -0.4501 | 0.005                    | -0.4055 | 0.005                      | -0.0067 |
| 0.010                         | -0.7523 | 0.010                    | -0.6942 | 0.010                      | -0.3827 |
| 0.020                         | -0.9954 | 0.020                    | -0.9310 | 0.020                      | -0.7346 |
| 0.040                         | -1.1638 | 0.040                    | -1.1164 | 0.040                      | -0.8893 |
| 0.060                         | -1.2489 | 0.060                    | -1.0837 | 0.060                      | -0.9628 |
| 0.080                         | -1.1470 | 0.080                    | -1.0274 | 0.080                      | -0.8661 |
| 0.100                         | -1.1203 | 0.100                    | -0.9976 | 0.100                      | -0.8217 |
| 0.125                         | -0.9326 | 0.125                    | -0.9052 | 0.125                      | -0.7819 |
| 0.150                         | -0.8865 | 0.150                    | -0.8957 | 0.150                      | -0.8465 |
| 0.175                         | -0.8363 | 0.175                    | -0.9620 | 0.175                      | -0.8889 |
| 0.200                         | -0.9890 | 0.200                    | -1.0031 | 0.200                      | -0.7880 |
| 0.250                         | -1.0349 | 0.250                    | -0.9863 | 0.250                      | -0.7748 |
| 0.300                         | -0.8401 | 0.300                    | -0.8866 | 0.300                      | -0.7240 |
| 0.350                         | -0.7505 | 0.350                    | -0.7786 | 0.350                      | -0.7195 |
| 0.400                         | -0.6660 | 0.400                    | -0.7385 | 0.400                      | -0.6620 |
| 0.450                         | -0.5780 | 0.450                    | -0.6374 | 0.450                      | -0.6182 |
| 0.500                         | -0.5348 | 0.500                    | -0.5963 | 0.500                      | -0.5448 |
| 0.550                         | -0.4393 | 0.550                    | -0.5548 | 0.550                      | -0.4921 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.7429 | 0.005 | 0.7677 | 0.005 | 0.7249 |
| 0.010 | 0.5463 | 0.010 | 0.5374 | 0.010 | 0.4346 |

Fight 19 Test point 23

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 34600. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.2  $\rho$ BAR, lb/ft<sup>2</sup> = 175.0 Rnpu = 1706000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9569  | 0.000                    | 1.0020  | 0.000                      | 0.9928  |
| 0.005                       | 0.1902  | 0.005                    | 0.2584  | 0.005                      | 0.5299  |
| 0.010                       | -0.0826 | 0.010                    | 0.0068  | 0.010                      | 0.2418  |
| 0.020                       | -0.3326 | 0.020                    | -0.2684 | 0.020                      | -0.1003 |
| 0.040                       | -0.5125 | 0.040                    | -0.4277 | 0.040                      | -0.2826 |
| 0.060                       | -0.5701 | 0.060                    | -0.4690 | 0.060                      | -0.3672 |
| 0.080                       | -0.5929 | 0.080                    | -0.4963 | 0.080                      | -0.3947 |
| 0.100                       | -0.5940 | 0.100                    | -0.5130 | 0.100                      | -0.4205 |
| 0.125                       | -0.5569 | 0.125                    | -0.5274 | 0.125                      | -0.4357 |
| 0.150                       | -0.6407 | 0.150                    | -0.5707 | 0.150                      | -0.4725 |
| 0.175                       | -0.6350 | 0.175                    | -0.6081 | 0.175                      | -0.4932 |
| 0.200                       | -0.6826 | 0.200                    | -0.6281 | 0.200                      | -0.5066 |
| 0.250                       | -0.6823 | 0.250                    | -0.6730 | 0.250                      | -0.5487 |
| 0.300                       | -0.6628 | 0.300                    | -0.6648 | 0.300                      | -0.5464 |
| 0.350                       | -0.6177 | 0.350                    | -0.6145 | 0.350                      | -0.5547 |
| 0.400                       | -0.5682 | 0.400                    | -0.6186 | 0.400                      | -0.5263 |
| 0.450                       | -0.4974 | 0.450                    | -0.5374 | 0.450                      | -0.5114 |
| 0.500                       | -0.4718 | 0.500                    | -0.5368 | 0.500                      | -0.4610 |
| 0.550                       | -0.3989 | 0.550                    | -0.5088 | 0.550                      | -0.4391 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3544 | 0.005 | 0.3664 | 0.005 | 0.2712  |
| 0.010 | 0.0845 | 0.010 | 0.0297 | 0.010 | -0.1413 |



Fight 19 Test point 24

Cweep, deg = 20.0 Mach = 0.71 hp, ft = 35000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 173.2 Rnpu = 1689000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9383  | 0.000                    | 0.9827  | 0.000                      | 0.9870  |
| 0.005                       | -0.0098 | 0.005                    | 0.0447  | 0.005                      | 0.3699  |
| 0.010                       | -0.2945 | 0.010                    | -0.2129 | 0.010                      | 0.0477  |
| 0.020                       | -0.5420 | 0.020                    | -0.4704 | 0.020                      | -0.3016 |
| 0.040                       | -0.7084 | 0.040                    | -0.6216 | 0.040                      | -0.4592 |
| 0.060                       | -0.7412 | 0.060                    | -0.6452 | 0.060                      | -0.5351 |
| 0.080                       | -0.7492 | 0.080                    | -0.6595 | 0.080                      | -0.5446 |
| 0.100                       | -0.7453 | 0.100                    | -0.6669 | 0.100                      | -0.5464 |
| 0.125                       | -0.6554 | 0.125                    | -0.6610 | 0.125                      | -0.5542 |
| 0.150                       | -0.7624 | 0.150                    | -0.6882 | 0.150                      | -0.6002 |
| 0.175                       | -0.7409 | 0.175                    | -0.7237 | 0.175                      | -0.6141 |
| 0.200                       | -0.7919 | 0.200                    | -0.7380 | 0.200                      | -0.6089 |
| 0.250                       | -0.7786 | 0.250                    | -0.7754 | 0.250                      | -0.6350 |
| 0.300                       | -0.7357 | 0.300                    | -0.7536 | 0.300                      | -0.6127 |
| 0.350                       | -0.6750 | 0.350                    | -0.6844 | 0.350                      | -0.6242 |
| 0.400                       | -0.6069 | 0.400                    | -0.6695 | 0.400                      | -0.5861 |
| 0.450                       | -0.5301 | 0.450                    | -0.5689 | 0.450                      | -0.5503 |
| 0.500                       | -0.5016 | 0.500                    | -0.5622 | 0.500                      | -0.4989 |
| 0.550                       | -0.4210 | 0.550                    | -0.5218 | 0.550                      | -0.4621 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5089 | 0.005 | 0.5321 | 0.005 | 0.4456 |
| 0.010 | 0.2690 | 0.010 | 0.2309 | 0.010 | 0.0811 |

Fight 19 Test point 23

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 35000. Angle of attack, deg = 2.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 197.2 Rnpu = 1815000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9398  | 0.000                    | 0.9736  | 0.000                      | 0.9815  |
| 0.005                       | -0.0517 | 0.005                    | -0.0027 | 0.005                      | 0.2958  |
| 0.010                       | -0.3316 | 0.010                    | -0.2758 | 0.010                      | -0.0325 |
| 0.020                       | -0.5928 | 0.020                    | -0.5428 | 0.020                      | -0.4002 |
| 0.040                       | -0.8017 | 0.040                    | -0.7180 | 0.040                      | -0.5692 |
| 0.060                       | -0.8356 | 0.060                    | -0.7500 | 0.060                      | -0.6760 |
| 0.080                       | -0.7924 | 0.080                    | -0.7816 | 0.080                      | -0.6708 |
| 0.100                       | -0.9307 | 0.100                    | -0.7893 | 0.100                      | -0.6569 |
| 0.125                       | -0.7767 | 0.125                    | -0.8243 | 0.125                      | -0.6221 |
| 0.150                       | -0.8784 | 0.150                    | -0.7740 | 0.150                      | -0.7042 |
| 0.175                       | -0.8776 | 0.175                    | -0.7996 | 0.175                      | -0.8136 |
| 0.200                       | -0.9591 | 0.200                    | -0.8519 | 0.200                      | -0.9088 |
| 0.250                       | -1.0514 | 0.250                    | -0.9749 | 0.250                      | -0.8450 |
| 0.300                       | -1.0991 | 0.300                    | -1.0289 | 0.300                      | -0.8490 |
| 0.350                       | -1.0017 | 0.350                    | -1.0606 | 0.350                      | -0.9097 |
| 0.400                       | -0.6529 | 0.400                    | -1.1216 | 0.400                      | -0.8712 |
| 0.450                       | -0.5276 | 0.450                    | -1.0360 | 0.450                      | -0.5108 |
| 0.500                       | -0.5018 | 0.500                    | -0.4368 | 0.500                      | -0.5147 |
| 0.550                       | -0.4266 | 0.550                    | -0.4747 | 0.550                      | -0.4583 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5917 | 0.005 | 0.6128 | 0.005 | 0.5478 |
| 0.010 | 0.3563 | 0.010 | 0.3256 | 0.010 | 0.2103 |

Fight 19 Test point 26

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 34900. Angle of attack, deg = 2.6  
 Angle of sideslip, deg = -5.2 QBAR, lb/ft<sup>2</sup> = 198.0 Rnpu = 1819000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9952  | 0.000                    | 1.0439  | 0.000                      | 1.0508  |
| 0.005                       | -0.0509 | 0.005                    | 0.0285  | 0.005                      | 0.3462  |
| 0.010                       | -0.3401 | 0.010                    | -0.2568 | 0.010                      | 0.0062  |
| 0.020                       | -0.6015 | 0.020                    | -0.5287 | 0.020                      | -0.3765 |
| 0.040                       | -0.7941 | 0.040                    | -0.7211 | 0.040                      | -0.5504 |
| 0.060                       | -0.8789 | 0.060                    | -0.7561 | 0.060                      | -0.6639 |
| 0.080                       | -0.8523 | 0.080                    | -0.7935 | 0.080                      | -0.6767 |
| 0.100                       | -0.8990 | 0.100                    | -0.8103 | 0.100                      | -0.6584 |
| 0.125                       | -0.8259 | 0.125                    | -0.8266 | 0.125                      | -0.6167 |
| 0.150                       | -0.9354 | 0.150                    | -0.8011 | 0.150                      | -0.6725 |
| 0.175                       | -0.9051 | 0.175                    | -0.8399 | 0.175                      | -0.7631 |
| 0.200                       | -0.9839 | 0.200                    | -0.8713 | 0.200                      | -0.8729 |
| 0.250                       | -1.0737 | 0.250                    | -0.9777 | 0.250                      | -0.8671 |
| 0.300                       | -1.1503 | 0.300                    | -1.0420 | 0.300                      | -0.8573 |
| 0.350                       | -1.1369 | 0.350                    | -1.0789 | 0.350                      | -0.9154 |
| 0.400                       | -1.1281 | 0.400                    | -1.1495 | 0.400                      | -0.9147 |
| 0.450                       | -0.5126 | 0.450                    | -1.0960 | 0.450                      | -0.8585 |
| 0.500                       | -0.4351 | 0.500                    | -0.6592 | 0.500                      | -0.4243 |
| 0.550                       | -0.3774 | 0.550                    | -0.3884 | 0.550                      | -0.4450 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.6628 | 0.005 | 0.6726 | 0.005 | 0.6027 |
| 0.010 | 0.4312 | 0.010 | 0.3809 | 0.010 | 0.2518 |

Flight 19 Test point 27

Sweep, deg = 20.0 Mach = 0.74 hp, ft = 34900. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = 0.6 QBAR, lb/ft<sup>2</sup> = 192.9 Rnpu = 1792000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9639  | 0.000                    | 1.0103  | 0.000                      | 0.9953  |
| 0.005                       | 0.2821  | 0.005                    | 0.3335  | 0.005                      | 0.5845  |
| 0.010                       | 0.0145  | 0.010                    | 0.0939  | 0.010                      | 0.3031  |
| 0.020                       | -0.2393 | 0.020                    | -0.1768 | 0.020                      | -0.0292 |
| 0.040                       | -0.4422 | 0.040                    | -0.3645 | 0.040                      | -0.2272 |
| 0.060                       | -0.5124 | 0.060                    | -0.4216 | 0.060                      | -0.3346 |
| 0.080                       | -0.5646 | 0.080                    | -0.4710 | 0.080                      | -0.3725 |
| 0.100                       | -0.5755 | 0.100                    | -0.4954 | 0.100                      | -0.3996 |
| 0.125                       | -0.5426 | 0.125                    | -0.5156 | 0.125                      | -0.4301 |
| 0.150                       | -0.6345 | 0.150                    | -0.5734 | 0.150                      | -0.4916 |
| 0.175                       | -0.6466 | 0.175                    | -0.6228 | 0.175                      | -0.5223 |
| 0.200                       | -0.7069 | 0.200                    | -0.6513 | 0.200                      | -0.5306 |
| 0.250                       | -0.7341 | 0.250                    | -0.7449 | 0.250                      | -0.5888 |
| 0.300                       | -0.7355 | 0.300                    | -0.7382 | 0.300                      | -0.5937 |
| 0.350                       | -0.6683 | 0.350                    | -0.6853 | 0.350                      | -0.6144 |
| 0.400                       | -0.6053 | 0.400                    | -0.6711 | 0.400                      | -0.5784 |
| 0.450                       | -0.5264 | 0.450                    | -0.5700 | 0.450                      | -0.5495 |
| 0.500                       | -0.4944 | 0.500                    | -0.5585 | 0.500                      | -0.4864 |
| 0.550                       | -0.4161 | 0.550                    | -0.5228 | 0.550                      | -0.4467 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3008 | 0.005 | 0.3083  | 0.005 | 0.2257  |
| 0.010 | 0.0295 | 0.010 | -0.0354 | 0.010 | -0.1996 |

Fight 19 Test point 28

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 34900. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.6 QBAR, lb/ft<sup>2</sup> = 197.3 Rrho = 1817000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9633  | 0.000                    | 1.0064  | 0.000                      | 1.0021  |
| 0.005                       | 0.1635  | 0.005                    | 0.2143  | 0.005                      | 0.4794  |
| 0.010                       | -0.1105 | 0.010                    | -0.0484 | 0.010                      | 0.1803  |
| 0.020                       | -0.3599 | 0.020                    | -0.3069 | 0.020                      | -0.1685 |
| 0.040                       | -0.5685 | 0.040                    | -0.4891 | 0.040                      | -0.3501 |
| 0.060                       | -0.6235 | 0.060                    | -0.5381 | 0.060                      | -0.4523 |
| 0.080                       | -0.6928 | 0.080                    | -0.5858 | 0.080                      | -0.4760 |
| 0.100                       | -0.6618 | 0.100                    | -0.5963 | 0.100                      | -0.4968 |
| 0.125                       | -0.6606 | 0.125                    | -0.6074 | 0.125                      | -0.5254 |
| 0.150                       | -0.7005 | 0.150                    | -0.6528 | 0.150                      | -0.6141 |
| 0.175                       | -0.7455 | 0.175                    | -0.7254 | 0.175                      | -0.6409 |
| 0.200                       | -0.7975 | 0.200                    | -0.7449 | 0.200                      | -0.6189 |
| 0.250                       | -0.8920 | 0.250                    | -0.8343 | 0.250                      | -0.6638 |
| 0.300                       | -0.8460 | 0.300                    | -0.8858 | 0.300                      | -0.6967 |
| 0.350                       | -0.7342 | 0.350                    | -0.8937 | 0.350                      | -0.6908 |
| 0.400                       | -0.6286 | 0.400                    | -0.6918 | 0.400                      | -0.6298 |
| 0.450                       | -0.5475 | 0.450                    | -0.5540 | 0.450                      | -0.5862 |
| 0.500                       | -0.5104 | 0.500                    | -0.5683 | 0.500                      | -0.5103 |
| 0.550                       | -0.4298 | 0.550                    | -0.5377 | 0.550                      | -0.4542 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4232 | 0.005 | 0.4416 | 0.005 | 0.3623  |
| 0.010 | 0.1647 | 0.010 | 0.1155 | 0.010 | -0.0276 |

Flight 19 Test point 29

Sweep, deg = 25.3 Mach = 0.75 hp, ft = 34900. Angle of attack, deg = 2.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 196.0 Rnpu = 1808000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8344  | 0.000                    | 0.8675  | 0.000                      | 0.8727  |
| 0.005                       | -0.2234 | 0.005                    | -0.1941 | 0.005                      | 0.1123  |
| 0.010                       | -0.4925 | 0.010                    | -0.4622 | 0.010                      | -0.2245 |
| 0.020                       | -0.7316 | 0.020                    | -0.6995 | 0.020                      | -0.5881 |
| 0.040                       | -0.8696 | 0.040                    | -0.8767 | 0.040                      | -0.7192 |
| 0.060                       | -0.9393 | 0.060                    | -0.8718 | 0.060                      | -0.8345 |
| 0.080                       | -0.8927 | 0.080                    | -0.8812 | 0.080                      | -0.7826 |
| 0.100                       | -0.9811 | 0.100                    | -0.8953 | 0.100                      | -0.7197 |
| 0.125                       | -0.8128 | 0.125                    | -0.8910 | 0.125                      | -0.6647 |
| 0.150                       | -0.8962 | 0.150                    | -0.8372 | 0.150                      | -0.7543 |
| 0.175                       | -0.8755 | 0.175                    | -0.8541 | 0.175                      | -0.8992 |
| 0.200                       | -0.9472 | 0.200                    | -0.8692 | 0.200                      | -0.9610 |
| 0.250                       | -0.9883 | 0.250                    | -0.9859 | 0.250                      | -0.8756 |
| 0.300                       | -1.0154 | 0.300                    | -1.0126 | 0.300                      | -0.8285 |
| 0.350                       | -0.7700 | 0.350                    | -1.0240 | 0.350                      | -0.6230 |
| 0.400                       | -0.6377 | 0.400                    | -0.6358 | 0.400                      | -0.6135 |
| 0.450                       | -0.5528 | 0.450                    | -0.5353 | 0.450                      | -0.5773 |
| 0.500                       | -0.5132 | 0.500                    | -0.5483 | 0.500                      | -0.5127 |
| 0.550                       | -0.4298 | 0.550                    | -0.5262 | 0.550                      | -0.4615 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.6104 | 0.005 | 0.6495 | 0.005 | 0.6070 |
| 0.010 | 0.4075 | 0.010 | 0.4041 | 0.010 | 0.3090 |

Fight 19 Test point 30

Sweep, deg = 25.3 Mach = 0.75 hp, ft = 34900. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 197.7 Rnpu = 1820000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8997  | 0.000                    | 0.9367  | 0.000                      | 0.5298  |
| 0.005                       | 0.2190  | 0.005                    | 0.2681  | 0.005                      | 0.5069  |
| 0.010                       | -0.0284 | 0.010                    | 0.0383  | 0.010                      | 0.2392  |
| 0.020                       | -0.2649 | 0.020                    | -0.2216 | 0.020                      | -0.0798 |
| 0.040                       | -0.4519 | 0.040                    | -0.3863 | 0.040                      | -0.2655 |
| 0.060                       | -0.5182 | 0.060                    | -0.4424 | 0.060                      | -0.3517 |
| 0.080                       | -0.5492 | 0.080                    | -0.4818 | 0.080                      | -0.3812 |
| 0.100                       | -0.5638 | 0.100                    | -0.5004 | 0.100                      | -0.4100 |
| 0.125                       | -0.5283 | 0.125                    | -0.5157 | 0.125                      | -0.4394 |
| 0.150                       | -0.6143 | 0.150                    | -0.5572 | 0.150                      | -0.4915 |
| 0.175                       | -0.6305 | 0.175                    | -0.6004 | 0.175                      | -0.5153 |
| 0.200                       | -0.3614 | 0.200                    | -0.6259 | 0.200                      | -0.5116 |
| 0.250                       | -0.6910 | 0.250                    | -0.7092 | 0.250                      | -0.5667 |
| 0.300                       | -0.6806 | 0.300                    | -0.6937 | 0.300                      | -0.5605 |
| 0.350                       | -0.6368 | 0.350                    | -0.6569 | 0.350                      | -0.5789 |
| 0.400                       | -0.5807 | 0.400                    | -0.6257 | 0.400                      | -0.5441 |
| 0.450                       | -0.5046 | 0.450                    | -0.5410 | 0.450                      | -0.5153 |
| 0.500                       | -0.4789 | 0.500                    | -0.5282 | 0.500                      | -0.4592 |
| 0.550                       | -0.4065 | 0.550                    | -0.4955 | 0.550                      | -0.4367 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2910 | 0.005 | 0.3085  | 0.005 | 0.2321  |
| 0.010 | 0.0330 | 0.010 | -0.0105 | 0.010 | -0.1539 |

Fight 19 Test point 31

Sweep, deg = 25.3 Mach = 0.74 hp, ft = 35000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 192.5 Rnpu = 1786000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8923  | 0.000                    | 0.9292  | 0.000                      | 0.9260  |
| 0.005                       | 0.0948  | 0.005                    | 0.1371  | 0.005                      | 0.4037  |
| 0.010                       | -0.1627 | 0.010                    | -0.1042 | 0.010                      | 0.1151  |
| 0.020                       | -0.3958 | 0.020                    | -0.3556 | 0.020                      | -0.2135 |
| 0.040                       | -0.5701 | 0.040                    | -0.5075 | 0.040                      | -0.3786 |
| 0.060                       | -0.6217 | 0.060                    | -0.5398 | 0.060                      | -0.4527 |
| 0.080                       | -0.6442 | 0.080                    | -0.5696 | 0.080                      | -0.4713 |
| 0.100                       | -0.6525 | 0.100                    | -0.5801 | 0.100                      | -0.4918 |
| 0.125                       | -0.5819 | 0.125                    | -0.5917 | 0.125                      | -0.5152 |
| 0.150                       | -0.6737 | 0.150                    | -0.6307 | 0.150                      | -0.5652 |
| 0.175                       | -0.6876 | 0.175                    | -0.6643 | 0.175                      | -0.5753 |
| 0.200                       | -0.7088 | 0.200                    | -0.6880 | 0.200                      | -0.5665 |
| 0.250                       | -0.7432 | 0.250                    | -0.7609 | 0.250                      | -0.6088 |
| 0.300                       | -0.7077 | 0.300                    | -0.7332 | 0.300                      | -0.5869 |
| 0.350                       | -0.6550 | 0.350                    | -0.6630 | 0.350                      | -0.6109 |
| 0.400                       | -0.5912 | 0.400                    | -0.6465 | 0.400                      | -0.5686 |
| 0.450                       | -0.5131 | 0.450                    | -0.5633 | 0.450                      | -0.5325 |
| 0.500                       | -0.4874 | 0.500                    | -0.5393 | 0.500                      | -0.4768 |
| 0.550                       | -0.4108 | 0.550                    | -0.5124 | 0.550                      | -0.4457 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3963 | 0.005 | 0.4188 | 0.005 | 0.3445  |
| 0.010 | 0.1538 | 0.010 | 0.1166 | 0.010 | -0.0165 |



Fight 19 Test point 32

Sweep, deg = 26.4 Mach = 0.61 hp, ft = 26600. Angle of attack, deg = 4.2  
 Angle of sideslip, deg = -3.3 QBAR, lb/ft<sup>2</sup> = 167.7 Rnpu = 1558000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8046  | 0.000                    | 0.8319  | 0.000                      | 0.8319  |
| 0.005                       | -0.0423 | 0.005                    | -0.0258 | 0.005                      | 0.2304  |
| 0.010                       | -0.2838 | 0.010                    | -0.2519 | 0.010                      | -0.0609 |
| 0.020                       | -0.5039 | 0.020                    | -0.4848 | 0.020                      | -0.3933 |
| 0.040                       | -0.6810 | 0.040                    | -0.6418 | 0.040                      | -0.5181 |
| 0.060                       | -0.7130 | 0.060                    | -0.6690 | 0.060                      | -0.6074 |
| 0.080                       | -0.7177 | 0.080                    | -0.6795 | 0.080                      | -0.6276 |
| 0.100                       | -0.7374 | 0.100                    | -0.6938 | 0.100                      | -0.5901 |
| 0.125                       | -0.6579 | 0.125                    | -0.6906 | 0.125                      | -0.5376 |
| 0.150                       | -0.7253 | 0.150                    | -0.6889 | 0.150                      | -0.6284 |
| 0.175                       | -0.7258 | 0.175                    | -0.7177 | 0.175                      | -0.7363 |
| 0.200                       | -0.7978 | 0.200                    | -0.7400 | 0.200                      | -0.7333 |
| 0.250                       | -0.8531 | 0.250                    | -0.8183 | 0.250                      | -0.7232 |
| 0.300                       | -0.8366 | 0.300                    | -0.8536 | 0.300                      | -0.7314 |
| 0.350                       | -0.8155 | 0.350                    | -0.8381 | 0.350                      | -0.7681 |
| 0.400                       | -0.7885 | 0.400                    | -0.8578 | 0.400                      | -0.7307 |
| 0.450                       | -0.7325 | 0.450                    | -0.7825 | 0.450                      | -0.6998 |
| 0.500                       | -0.5905 | 0.500                    | -0.6926 | 0.500                      | -0.6322 |
| 0.550                       | -0.3939 | 0.550                    | -0.4338 | 0.550                      | -0.5073 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4689 | 0.005 | 0.5037 | 0.005 | 0.4647 |
| 0.010 | 0.2718 | 0.010 | 0.2501 | 0.010 | 0.1660 |

Fight 19 Test point 33

Sweep, deg = 30.1 Mach = 0.75 hp, ft = 35200. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 193.0 Rnpu = 1785000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8049  | 0.000                    | 0.8459  | 0.000                      | 0.8395  |
| 0.005                       | 0.1406  | 0.005                    | 0.1732  | 0.005                      | 0.4123  |
| 0.010                       | -0.0858 | 0.010                    | -0.0438 | 0.010                      | 0.1525  |
| 0.020                       | -0.3031 | 0.020                    | -0.2664 | 0.020                      | -0.1394 |
| 0.040                       | -0.4547 | 0.040                    | -0.4099 | 0.040                      | -0.2932 |
| 0.060                       | -0.5013 | 0.060                    | -0.4421 | 0.060                      | -0.3643 |
| 0.080                       | -0.5212 | 0.080                    | -0.4635 | 0.080                      | -0.3835 |
| 0.100                       | -0.5278 | 0.100                    | -0.4789 | 0.100                      | -0.4069 |
| 0.125                       | -0.4939 | 0.125                    | -0.4800 | 0.125                      | -0.4217 |
| 0.150                       | -0.5627 | 0.150                    | -0.5199 | 0.150                      | -0.4518 |
| 0.175                       | -0.5577 | 0.175                    | -0.5501 | 0.175                      | -0.4771 |
| 0.200                       | -0.6066 | 0.200                    | -0.5647 | 0.200                      | -0.4678 |
| 0.250                       | -0.6137 | 0.250                    | -0.6042 | 0.250                      | -0.5060 |
| 0.300                       | -0.5979 | 0.300                    | -0.5921 | 0.300                      | -0.5020 |
| 0.350                       | -0.5618 | 0.350                    | -0.5467 | 0.350                      | -0.5060 |
| 0.400                       | -0.5169 | 0.400                    | -0.5473 | 0.400                      | -0.4836 |
| 0.450                       | -0.4532 | 0.450                    | -0.4874 | 0.450                      | -0.4605 |
| 0.500                       | -0.4325 | 0.500                    | -0.4781 | 0.500                      | -0.4208 |
| 0.550                       | -0.3760 | 0.550                    | -0.4569 | 0.550                      | -0.4101 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.2759 | 0.005 | 0.3054 | 0.005 | 0.2358  |
| 0.010 | 0.0463 | 0.010 | 0.0135 | 0.010 | -0.1136 |

Flight 19 Test point 34

Sweep, deg = 30.1 Mach = 0.75 hp, ft = 34700. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 198.2 Rnpu = 1825000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7956  | 0.000                    | 0.8367  | 0.000                      | 0.8292  |
| 0.005                       | 0.0307  | 0.005                    | 0.0650  | 0.005                      | 0.3222  |
| 0.010                       | -0.1989 | 0.010                    | -0.1571 | 0.010                      | 0.0434  |
| 0.020                       | -0.4094 | 0.020                    | -0.3854 | 0.020                      | -0.2492 |
| 0.040                       | -0.5505 | 0.040                    | -0.5170 | 0.040                      | -0.3907 |
| 0.060                       | -0.5929 | 0.060                    | -0.5392 | 0.060                      | -0.4494 |
| 0.080                       | -0.6031 | 0.080                    | -0.5521 | 0.080                      | -0.4671 |
| 0.100                       | -0.5945 | 0.100                    | -0.5576 | 0.100                      | -0.4796 |
| 0.125                       | -0.5437 | 0.125                    | -0.5514 | 0.125                      | -0.4980 |
| 0.150                       | -0.6298 | 0.150                    | -0.5847 | 0.150                      | -0.5208 |
| 0.175                       | -0.6053 | 0.175                    | -0.6162 | 0.175                      | -0.5440 |
| 0.200                       | -0.6552 | 0.200                    | -0.6276 | 0.200                      | -0.5180 |
| 0.250                       | -0.6589 | 0.250                    | -0.6741 | 0.250                      | -0.5598 |
| 0.300                       | -0.6385 | 0.300                    | -0.6468 | 0.300                      | -0.5400 |
| 0.350                       | -0.5960 | 0.350                    | -0.5895 | 0.350                      | -0.5437 |
| 0.400                       | -0.5454 | 0.400                    | -0.5714 | 0.400                      | -0.5123 |
| 0.450                       | -0.4716 | 0.450                    | -0.5087 | 0.450                      | -0.4826 |
| 0.500                       | -0.4583 | 0.500                    | -0.4955 | 0.500                      | -0.4334 |
| 0.550                       | -0.3847 | 0.550                    | -0.4744 | 0.550                      | -0.4233 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3625 | 0.005 | 0.3066 | 0.005 | 0.3368 |
| 0.010 | 0.1424 | 0.010 | 0.1282 | 0.010 | 0.0151 |

Fight 19 Test point 35

Sweep, deg = 35.2  $M_{\infty}$  = 0.75 hp, ft = 34900. Angle of attack, deg = 3.3  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 196.2 Rnpu = 1807000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.5638  | 0.000                    | 0.5661  | 0.000                      | 0.5848  |
| 0.005                       | -0.5596 | 0.005                    | -0.5804 | 0.005                      | -0.2669 |
| 0.010                       | -0.7960 | 0.010                    | -0.8064 | 0.010                      | -0.5838 |
| 0.020                       | -0.9683 | 0.020                    | -0.9675 | 0.020                      | -0.9543 |
| 0.040                       | -1.0314 | 0.040                    | -1.0949 | 0.040                      | -0.9383 |
| 0.060                       | -1.0314 | 0.060                    | -1.0419 | 0.060                      | -0.9641 |
| 0.080                       | -0.9116 | 0.080                    | -0.8966 | 0.080                      | -0.8744 |
| 0.100                       | -0.8039 | 0.100                    | -0.9347 | 0.100                      | -0.6836 |
| 0.125                       | -0.7410 | 0.125                    | -0.7757 | 0.125                      | -0.7153 |
| 0.150                       | -0.8148 | 0.150                    | -0.7905 | 0.150                      | -0.8461 |
| 0.175                       | -0.7738 | 0.175                    | -0.7740 | 0.175                      | -0.9261 |
| 0.200                       | -0.8064 | 0.200                    | -0.7726 | 0.200                      | -0.6177 |
| 0.250                       | -0.7532 | 0.250                    | -0.7931 | 0.250                      | -0.6632 |
| 0.300                       | -0.7157 | 0.300                    | -0.7183 | 0.300                      | -0.6209 |
| 0.350                       | -0.6371 | 0.350                    | -0.6260 | 0.350                      | -0.5893 |
| 0.400                       | -0.5671 | 0.400                    | -0.5946 | 0.400                      | -0.5384 |
| 0.450                       | -0.4909 | 0.450                    | -0.5285 | 0.450                      | -0.4939 |
| 0.500                       | -0.4616 | 0.500                    | -0.4928 | 0.500                      | -0.4362 |
| 0.550                       | -0.3866 | 0.550                    | -0.4584 | 0.550                      | -0.4182 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5884 | 0.005 | 0.6411 | 0.005 | 0.6159 |
| 0.010 | 0.4481 | 0.010 | 0.4734 | 0.010 | 0.4372 |

Flight 19 Test point 36

Sweep, deg = 35.2 Mach = 0.77 hp, ft = 34100. Angle of attack, deg = -0.4  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 212.5 R<sub>pu</sub> = 1912000.

Upper surface

| BL 200.8<br>Inboard station |                | BL 260<br>Middle station |                | BL 320<br>Outboard station |                |
|-----------------------------|----------------|--------------------------|----------------|----------------------------|----------------|
| x/c                         | C <sub>p</sub> | x/c                      | C <sub>p</sub> | x/c                        | C <sub>p</sub> |
| 0.000                       | 0.6988         | 0.000                    | 0.7437         | 0.000                      | 0.7307         |
| 0.005                       | 0.2788         | 0.005                    | 0.2975         | 0.005                      | 0.4884         |
| 0.010                       | 0.0765         | 0.010                    | 0.1253         | 0.010                      | 0.2847         |
| 0.020                       | -0.1145        | 0.020                    | -0.0865        | 0.020                      | 0.0332         |
| 0.040                       | -0.2656        | 0.040                    | -0.2217        | 0.040                      | -0.1193        |
| 0.060                       | -0.3182        | 0.060                    | -0.2634        | 0.060                      | -0.1964        |
| 0.080                       | -0.3595        | 0.080                    | -0.3037        | 0.080                      | -0.2312        |
| 0.100                       | -0.3663        | 0.100                    | -0.3238        | 0.100                      | -0.2600        |
| 0.125                       | -0.3672        | 0.125                    | -0.3324        | 0.125                      | -0.2874        |
| 0.150                       | -0.4151        | 0.150                    | -0.3721        | 0.150                      | -0.3190        |
| 0.175                       | -0.4258        | 0.175                    | -0.3985        | 0.175                      | -0.3410        |
| 0.200                       | -0.4702        | 0.200                    | -0.4197        | 0.200                      | -0.3421        |
| 0.250                       | -0.4748        | 0.250                    | -0.4638        | 0.250                      | -0.3837        |
| 0.300                       | -0.4709        | 0.300                    | -0.4583        | 0.300                      | -0.3850        |
| 0.350                       | -0.4591        | 0.350                    | -0.4305        | 0.350                      | -0.4039        |
| 0.400                       | -0.4262        | 0.400                    | -0.4444        | 0.400                      | -0.3904        |
| 0.450                       | -0.3756        | 0.450                    | -0.3993        | 0.450                      | -0.3755        |
| 0.500                       | -0.3703        | 0.500                    | -0.3990        | 0.500                      | -0.3527        |
| 0.550                       | -0.3228        | 0.550                    | -0.3876        | 0.550                      | -0.3599        |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.0639  | 0.005 | 0.0848  | 0.005 | 0.0054  |
| 0.010 | -0.1643 | 0.010 | -0.1967 | 0.010 | -0.3466 |

Fight 19 Test point 37

Sweep, deg = 35.2 Mach = 0.75 hp, ft = 34800. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 198.9 Rnpu = 1825000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7049  | 0.000                    | 0.7459  | 0.000                      | 0.7435  |
| 0.005                       | 0.0719  | 0.005                    | 0.0850  | 0.005                      | 0.3189  |
| 0.010                       | -0.1318 | 0.010                    | -0.0977 | 0.010                      | 0.0783  |
| 0.020                       | -0.3129 | 0.020                    | -0.2992 | 0.020                      | -0.1754 |
| 0.040                       | -0.4396 | 0.040                    | -0.4134 | 0.040                      | -0.3074 |
| 0.060                       | -0.4694 | 0.060                    | -0.4263 | 0.060                      | -0.3526 |
| 0.080                       | -0.4865 | 0.080                    | -0.4487 | 0.080                      | -0.3681 |
| 0.100                       | -0.4811 | 0.100                    | -0.4438 | 0.100                      | -0.3821 |
| 0.125                       | -0.4607 | 0.125                    | -0.4419 | 0.125                      | -0.3991 |
| 0.150                       | -0.5116 | 0.150                    | -0.4725 | 0.150                      | -0.4209 |
| 0.175                       | -0.5042 | 0.175                    | -0.4890 | 0.175                      | -0.4324 |
| 0.200                       | -0.5488 | 0.200                    | -0.5060 | 0.200                      | -0.4146 |
| 0.250                       | -0.5421 | 0.250                    | -0.5370 | 0.250                      | -0.4550 |
| 0.300                       | -0.5280 | 0.300                    | -0.5222 | 0.300                      | -0.4416 |
| 0.350                       | -0.5004 | 0.350                    | -0.4832 | 0.350                      | -0.4479 |
| 0.400                       | -0.4581 | 0.400                    | -0.4838 | 0.400                      | -0.4315 |
| 0.450                       | -0.4070 | 0.450                    | -0.4339 | 0.450                      | -0.4117 |
| 0.500                       | -0.3967 | 0.500                    | -0.4282 | 0.500                      | -0.3796 |
| 0.550                       | -0.3454 | 0.550                    | -0.4146 | 0.550                      | -0.3852 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.2576 | 0.005 | 0.2968 | 0.005 | 0.2353  |
| 0.010 | 0.0510 | 0.010 | 0.0458 | 0.010 | -0.0681 |

Fight 19 Test point 38

Sweep, deg = 35.2 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 2.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 224.6 Rnpu = 1952000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.6556  | 0.000                    | 0.5664  | 0.000                      | 0.6682  |
| 0.005                       | -0.2669 | 0.005                    | -0.2868 | 0.005                      | -0.0370 |
| 0.010                       | -0.4818 | 0.010                    | -0.4944 | 0.010                      | -0.3252 |
| 0.020                       | -0.6695 | 0.020                    | -0.6956 | 0.020                      | -0.6573 |
| 0.040                       | -0.7918 | 0.040                    | -0.8375 | 0.040                      | -0.7400 |
| 0.060                       | -0.8417 | 0.060                    | -0.8151 | 0.060                      | -0.8079 |
| 0.080                       | -0.7825 | 0.080                    | -0.8047 | 0.080                      | -0.8093 |
| 0.100                       | -0.8120 | 0.100                    | -0.7625 | 0.100                      | -0.8254 |
| 0.125                       | -0.7289 | 0.125                    | -0.8226 | 0.125                      | -0.6326 |
| 0.150                       | -0.8147 | 0.150                    | -0.8372 | 0.150                      | -0.6900 |
| 0.175                       | -0.7891 | 0.175                    | -0.8125 | 0.175                      | -0.8087 |
| 0.200                       | -0.8436 | 0.200                    | -0.7921 | 0.200                      | -0.7650 |
| 0.250                       | -0.7892 | 0.250                    | -0.8793 | 0.250                      | -0.8118 |
| 0.300                       | -0.7555 | 0.300                    | -0.8800 | 0.300                      | -0.7978 |
| 0.350                       | -0.7698 | 0.350                    | -0.8299 | 0.350                      | -0.8186 |
| 0.400                       | -0.7226 | 0.400                    | -0.7337 | 0.400                      | -0.4570 |
| 0.450                       | -0.5124 | 0.450                    | -0.4645 | 0.450                      | -0.4428 |
| 0.500                       | -0.4424 | 0.500                    | -0.4549 | 0.500                      | -0.4130 |
| 0.550                       | -0.3810 | 0.550                    | -0.4351 | 0.550                      | -0.3960 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4993 | 0.005 | 0.5548 | 0.005 | 0.5322 |
| 0.010 | 0.3393 | 0.010 | 0.3591 | 0.010 | 0.3151 |

Fight 19 Test point 39

Sweep, deg = 35.2 Mach = 0.80 hp, ft = 34700. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 223.9 Rnpu = 1956000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7125  | 0.000                    | 0.7538  | 0.000                      | 0.7429  |
| 0.005                       | 0.1926  | 0.005                    | 0.2010  | 0.005                      | 0.4040  |
| 0.010                       | -0.0103 | 0.010                    | 0.0250  | 0.010                      | 0.1882  |
| 0.020                       | -0.1985 | 0.020                    | -0.1951 | 0.020                      | -0.0725 |
| 0.040                       | -0.3530 | 0.040                    | -0.3172 | 0.040                      | -0.2204 |
| 0.060                       | -0.4038 | 0.060                    | -0.3620 | 0.060                      | -0.2940 |
| 0.080                       | -0.4362 | 0.080                    | -0.4024 | 0.080                      | -0.3250 |
| 0.100                       | -0.4395 | 0.100                    | -0.4152 | 0.100                      | -0.3507 |
| 0.125                       | -0.4310 | 0.125                    | -0.4205 | 0.125                      | -0.3857 |
| 0.150                       | -0.5116 | 0.150                    | -0.4606 | 0.150                      | -0.4047 |
| 0.175                       | -0.4859 | 0.175                    | -0.4858 | 0.175                      | -0.4256 |
| 0.200                       | -0.5383 | 0.200                    | -0.5068 | 0.200                      | -0.4183 |
| 0.250                       | -0.5819 | 0.250                    | -0.5618 | 0.250                      | -0.4641 |
| 0.300                       | -0.5703 | 0.300                    | -0.5485 | 0.300                      | -0.4639 |
| 0.350                       | -0.5394 | 0.350                    | -0.5127 | 0.350                      | -0.4733 |
| 0.400                       | -0.4890 | 0.400                    | -0.5058 | 0.400                      | -0.4544 |
| 0.450                       | -0.4267 | 0.450                    | -0.4562 | 0.450                      | -0.4250 |
| 0.500                       | -0.4075 | 0.500                    | -0.4388 | 0.500                      | -0.3859 |
| 0.550                       | -0.3557 | 0.550                    | -0.4236 | 0.550                      | -0.3816 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.1744  | 0.005 | 0.2112  | 0.005 | 0.1505  |
| 0.010 | -0.0369 | 0.010 | -0.0584 | 0.010 | -0.1656 |



Flight 19 Test point 40

Sweep, deg = 35.2 Mach = 0.80 hp, ft = 35100. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 224.0 Rnpu = 1946000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7100  | 0.000                    | 0.7403  | 0.000                      | 0.7391  |
| 0.005                       | 0.0450  | 0.005                    | 0.0402  | 0.005                      | 0.2648  |
| 0.010                       | -0.1685 | 0.010                    | -0.1482 | 0.010                      | 0.0203  |
| 0.020                       | -0.3555 | 0.020                    | -0.3580 | 0.020                      | -0.2571 |
| 0.040                       | -0.4820 | 0.040                    | -0.4891 | 0.040                      | -0.3902 |
| 0.060                       | -0.5512 | 0.060                    | -0.5045 | 0.060                      | -0.4417 |
| 0.080                       | -0.5331 | 0.080                    | -0.5340 | 0.080                      | -0.4392 |
| 0.100                       | -0.5702 | 0.100                    | -0.5121 | 0.100                      | -0.4438 |
| 0.125                       | -0.5096 | 0.125                    | -0.5492 | 0.125                      | -0.4893 |
| 0.150                       | -0.5784 | 0.150                    | -0.5674 | 0.150                      | -0.6330 |
| 0.175                       | -0.5875 | 0.175                    | -0.6050 | 0.175                      | -0.5638 |
| 0.200                       | -0.6454 | 0.200                    | -0.6144 | 0.200                      | -0.4680 |
| 0.250                       | -0.6496 | 0.250                    | -0.6818 | 0.250                      | -0.5627 |
| 0.300                       | -0.6577 | 0.300                    | -0.7033 | 0.300                      | -0.5610 |
| 0.350                       | -0.6376 | 0.350                    | -0.5406 | 0.350                      | -0.5621 |
| 0.400                       | -0.5523 | 0.400                    | -0.5371 | 0.400                      | -0.4886 |
| 0.450                       | -0.4493 | 0.450                    | -0.5016 | 0.450                      | -0.4594 |
| 0.500                       | -0.4294 | 0.500                    | -0.4740 | 0.500                      | -0.4078 |
| 0.550                       | -0.3752 | 0.550                    | -0.4427 | 0.550                      | -0.3964 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3057 | 0.005 | 0.3538 | 0.005 | 0.3112 |
| 0.010 | 0.1007 | 0.010 | 0.1062 | 0.010 | 0.0225 |

Fight 19 Test point 41

Sweep, deg = 30.0 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 224.5 Rnpu = 1953000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7998  | 0.000                    | 0.8232  | 0.000                      | 0.8231  |
| 0.005                       | -0.0503 | 0.005                    | -0.0428 | 0.005                      | 0.2053  |
| 0.010                       | -0.2913 | 0.010                    | -0.2698 | 0.010                      | -0.0844 |
| 0.020                       | -0.5137 | 0.020                    | -0.4991 | 0.020                      | -0.4101 |
| 0.040                       | -0.7141 | 0.040                    | -0.6533 | 0.040                      | -0.5573 |
| 0.060                       | -0.7377 | 0.060                    | -0.6757 | 0.060                      | -0.6811 |
| 0.080                       | -0.6854 | 0.080                    | -0.7085 | 0.080                      | -0.6565 |
| 0.100                       | -0.7518 | 0.100                    | -0.7227 | 0.100                      | -0.6473 |
| 0.125                       | -0.6850 | 0.125                    | -0.7580 | 0.125                      | -0.4959 |
| 0.150                       | -0.7664 | 0.150                    | -0.7133 | 0.150                      | -0.6340 |
| 0.175                       | -0.7502 | 0.175                    | -0.7492 | 0.175                      | -0.7788 |
| 0.200                       | -0.8207 | 0.200                    | -0.7597 | 0.200                      | -0.7641 |
| 0.250                       | -0.8983 | 0.250                    | -0.8709 | 0.250                      | -0.8018 |
| 0.300                       | -0.9532 | 0.300                    | -0.9122 | 0.300                      | -0.8275 |
| 0.350                       | -0.8995 | 0.350                    | -0.9327 | 0.350                      | -0.8851 |
| 0.400                       | -0.7445 | 0.400                    | -1.0047 | 0.400                      | -0.9080 |
| 0.450                       | -0.7529 | 0.450                    | -1.0060 | 0.450                      | -0.9345 |
| 0.500                       | -0.4822 | 0.500                    | -0.5708 | 0.500                      | -0.4621 |
| 0.550                       | -0.3894 | 0.550                    | -0.4052 | 0.550                      | -0.3491 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4798 | 0.005 | 0.5162 | 0.005 | 0.4818 |
| 0.010 | 0.2729 | 0.010 | 0.2696 | 0.010 | 0.1952 |

Flight 19 Test point 42

Sweep, deg = 30.0 Mach = 0.80 hp, ft = 35100. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 222.9 Rrho = 1943000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8195  | 0.000                    | 0.8570  | 0.000                      | 0.8505  |
| 0.005                       | 0.1871  | 0.005                    | 0.2088  | 0.005                      | 0.4228  |
| 0.010                       | -0.0475 | 0.010                    | -0.0057 | 0.010                      | 0.1717  |
| 0.020                       | -0.2630 | 0.020                    | -0.2445 | 0.020                      | -0.1275 |
| 0.040                       | -0.4344 | 0.040                    | -0.3989 | 0.040                      | -0.2922 |
| 0.060                       | -0.5050 | 0.060                    | -0.4469 | 0.060                      | -0.3850 |
| 0.080                       | -0.5196 | 0.080                    | -0.4840 | 0.080                      | -0.4021 |
| 0.100                       | -0.5370 | 0.100                    | -0.4993 | 0.100                      | -0.4171 |
| 0.125                       | -0.5275 | 0.125                    | -0.5237 | 0.125                      | -0.4580 |
| 0.150                       | -0.5895 | 0.150                    | -0.5631 | 0.150                      | -0.5842 |
| 0.175                       | -0.5785 | 0.175                    | -0.6173 | 0.175                      | -0.6722 |
| 0.200                       | -0.6465 | 0.200                    | -0.6259 | 0.200                      | -0.5187 |
| 0.250                       | -0.7033 | 0.250                    | -0.7310 | 0.250                      | -0.6044 |
| 0.300                       | -0.7260 | 0.300                    | -0.7734 | 0.300                      | -0.6328 |
| 0.350                       | -0.7033 | 0.350                    | -0.7831 | 0.350                      | -0.7037 |
| 0.400                       | -0.7088 | 0.400                    | -0.8282 | 0.400                      | -0.5384 |
| 0.450                       | -0.5269 | 0.450                    | -0.4638 | 0.450                      | -0.4679 |
| 0.500                       | -0.4455 | 0.500                    | -0.4827 | 0.500                      | -0.4347 |
| 0.550                       | -0.3896 | 0.550                    | -0.4628 | 0.550                      | -0.4164 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.2885 | 0.005 | 0.3178 | 0.005 | 0.2632  |
| 0.010 | 0.0529 | 0.010 | 0.0290 | 0.010 | -0.0844 |

m-299

Fight 19 Test point 43

Sweep, deg = 30.0 Mach = 0.79 hp, ft = 35000. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 218.9 Rrho = 1924000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8153  | 0.000                    | 0.8508  | 0.000                      | 0.8472  |
| 0.005                       | 0.0922  | 0.005                    | 0.1135  | 0.005                      | 0.3467  |
| 0.010                       | -0.1461 | 0.010                    | -0.1083 | 0.010                      | 0.0727  |
| 0.020                       | -0.3639 | 0.020                    | -0.3377 | 0.020                      | -0.2292 |
| 0.040                       | -0.5311 | 0.040                    | -0.5019 | 0.040                      | -0.3930 |
| 0.060                       | -0.5696 | 0.060                    | -0.5338 | 0.060                      | -0.4695 |
| 0.080                       | -0.6698 | 0.080                    | -0.5644 | 0.080                      | -0.4770 |
| 0.100                       | -0.5466 | 0.100                    | -0.5555 | 0.100                      | -0.4776 |
| 0.125                       | -0.5931 | 0.125                    | -0.5867 | 0.125                      | -0.5000 |
| 0.150                       | -0.6445 | 0.150                    | -0.6088 | 0.150                      | -0.6264 |
| 0.175                       | -0.6602 | 0.175                    | -0.6688 | 0.175                      | -0.7511 |
| 0.200                       | -0.7227 | 0.200                    | -0.6801 | 0.200                      | -0.6361 |
| 0.250                       | -0.7279 | 0.250                    | -0.7814 | 0.250                      | -0.6149 |
| 0.300                       | -0.7509 | 0.300                    | -0.8024 | 0.300                      | -0.6743 |
| 0.350                       | -0.7350 | 0.350                    | -0.8214 | 0.350                      | -0.7261 |
| 0.400                       | -0.6975 | 0.400                    | -0.8417 | 0.400                      | -0.4942 |
| 0.450                       | -0.4874 | 0.450                    | -0.4763 | 0.450                      | -0.5001 |
| 0.500                       | -0.4566 | 0.500                    | -0.4952 | 0.500                      | -0.4443 |
| 0.550                       | -0.3979 | 0.550                    | -0.4768 | 0.550                      | -0.4208 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3661 | 0.005 | 0.3934 | 0.005 | 0.3417 |
| 0.010 | 0.1420 | 0.010 | 0.1222 | 0.010 | 0.0201 |

Flight 19 Test point 44

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 224.6 Rnpu = 1953000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9004  | 0.000                    | 0.9361  | 0.000                      | 0.9275  |
| 0.005                       | 0.0932  | 0.005                    | 0.1298  | 0.005                      | 0.3777  |
| 0.010                       | -0.1642 | 0.010                    | -0.1161 | 0.010                      | 0.0816  |
| 0.020                       | -0.3991 | 0.020                    | -0.3622 | 0.020                      | -0.2527 |
| 0.040                       | -0.6471 | 0.040                    | -0.5502 | 0.040                      | -0.4229 |
| 0.060                       | -0.6556 | 0.060                    | -0.5901 | 0.060                      | -0.5332 |
| 0.080                       | -0.6590 | 0.080                    | -0.6300 | 0.080                      | -0.5526 |
| 0.100                       | -0.7441 | 0.100                    | -0.6620 | 0.100                      | -0.5451 |
| 0.125                       | -0.6543 | 0.125                    | -0.7039 | 0.125                      | -0.4981 |
| 0.150                       | -0.7356 | 0.150                    | -0.6647 | 0.150                      | -0.5959 |
| 0.175                       | -0.7423 | 0.175                    | -0.7169 | 0.175                      | -0.7277 |
| 0.200                       | -0.8207 | 0.200                    | -0.7354 | 0.200                      | -0.7857 |
| 0.250                       | -0.9155 | 0.250                    | -0.8390 | 0.250                      | -0.7811 |
| 0.300                       | -0.9606 | 0.300                    | -0.9094 | 0.300                      | -0.8050 |
| 0.350                       | -0.9413 | 0.350                    | -0.9563 | 0.350                      | -0.8707 |
| 0.400                       | -0.9611 | 0.400                    | -1.0171 | 0.400                      | -0.9164 |
| 0.450                       | -0.9572 | 0.450                    | -1.0311 | 0.450                      | -0.9613 |
| 0.500                       | -0.7179 | 0.500                    | -1.0086 | 0.500                      | -0.9665 |
| 0.550                       | -0.3917 | 0.550                    | -0.4304 | 0.550                      | -0.4828 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4720 | 0.005 | 0.4857 | 0.005 | 0.4393 |
| 0.010 | 0.2403 | 0.010 | 0.2044 | 0.010 | 0.1023 |

Fight 13 Test point 45

Sweep, deg = 25.1 Mach = 0.80 hp, ft = 34500. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 227.7 Rnpu = 1977000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9109  | 0.000                    | 0.9506  | 0.000                      | 0.9391  |
| 0.005                       | 0.2505  | 0.005                    | 0.2841  | 0.005                      | 0.5109  |
| 0.010                       | -0.0005 | 0.010                    | 0.0566  | 0.010                      | 0.2431  |
| 0.020                       | -0.2387 | 0.020                    | -0.2021 | 0.020                      | -0.0843 |
| 0.040                       | -0.4351 | 0.040                    | -0.3807 | 0.040                      | -0.2723 |
| 0.060                       | -0.5011 | 0.060                    | -0.4416 | 0.060                      | -0.3771 |
| 0.080                       | -0.6042 | 0.080                    | -0.4859 | 0.080                      | -0.4032 |
| 0.100                       | -0.5225 | 0.100                    | -0.4976 | 0.100                      | -0.4195 |
| 0.125                       | -0.5961 | 0.125                    | -0.5299 | 0.125                      | -0.4399 |
| 0.150                       | -0.6208 | 0.150                    | -0.5570 | 0.150                      | -0.5579 |
| 0.175                       | -0.6438 | 0.175                    | -0.6303 | 0.175                      | -0.6742 |
| 0.200                       | -0.7167 | 0.200                    | -0.6695 | 0.200                      | -0.6171 |
| 0.250                       | -0.7901 | 0.250                    | -0.7723 | 0.250                      | -0.6361 |
| 0.300                       | -0.8661 | 0.300                    | -0.8197 | 0.300                      | -0.6801 |
| 0.350                       | -0.8529 | 0.350                    | -0.8607 | 0.350                      | -0.7709 |
| 0.400                       | -0.7202 | 0.400                    | -0.9330 | 0.400                      | -0.8167 |
| 0.450                       | -0.7419 | 0.450                    | -0.9442 | 0.450                      | -0.8355 |
| 0.500                       | -0.6117 | 0.500                    | -0.9799 | 0.500                      | -0.8923 |
| 0.550                       | -0.3870 | 0.550                    | -0.4197 | 0.550                      | -0.3792 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3324 | 0.005 | 0.3417 | 0.005 | 0.2895  |
| 0.010 | 0.0745 | 0.010 | 0.0300 | 0.010 | -0.0960 |

Fight 19 Test point 46

Sweep, deg = 25.2 Mach = 0.80 hp, ft = 35200. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 218.3 Rnpu = 1914000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8982  | 0.000                    | 0.9327  | 0.000                      | 0.9258  |
| 0.005                       | 0.0941  | 0.005                    | 0.1262  | 0.005                      | 0.3739  |
| 0.010                       | -0.1641 | 0.010                    | -0.1155 | 0.010                      | 0.0855  |
| 0.020                       | -0.4037 | 0.020                    | -0.3693 | 0.020                      | -0.2539 |
| 0.040                       | -0.6493 | 0.040                    | -0.5477 | 0.040                      | -0.4269 |
| 0.060                       | -0.6195 | 0.060                    | -0.5855 | 0.060                      | -0.5274 |
| 0.080                       | -0.6818 | 0.080                    | -0.6232 | 0.080                      | -0.5492 |
| 0.100                       | -0.7357 | 0.100                    | -0.6811 | 0.100                      | -0.5249 |
| 0.125                       | -0.6583 | 0.125                    | -0.6892 | 0.125                      | -0.5073 |
| 0.150                       | -0.7310 | 0.150                    | -0.6504 | 0.150                      | -0.6126 |
| 0.175                       | -0.7481 | 0.175                    | -0.6897 | 0.175                      | -0.7416 |
| 0.200                       | -0.8229 | 0.200                    | -0.7341 | 0.200                      | -0.7888 |
| 0.250                       | -0.8991 | 0.250                    | -0.8621 | 0.250                      | -0.7770 |
| 0.300                       | -0.9534 | 0.300                    | -0.9171 | 0.300                      | -0.7961 |
| 0.350                       | -0.9298 | 0.350                    | -0.9477 | 0.350                      | -0.8633 |
| 0.400                       | -0.9553 | 0.400                    | -1.0255 | 0.400                      | -0.9033 |
| 0.450                       | -0.8788 | 0.450                    | -1.0329 | 0.450                      | -0.9410 |
| 0.500                       | -0.5075 | 0.500                    | -1.0802 | 0.500                      | -0.9447 |
| 0.550                       | -0.3896 | 0.550                    | -0.4795 | 0.550                      | -0.4436 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4586 | 0.005 | 0.4810 | 0.005 | 0.4313 |
| 0.010 | 0.2223 | 0.010 | 0.1910 | 0.010 | 0.0889 |

Fight 19 Test point 47

Sweep, deg = 20.1 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -5.2 QBAR, lb/ft<sup>2</sup> = 221.5 Rnpu = 1929000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0441  | 0.000                    | 1.0875  | 0.000                      | 1.0783  |
| 0.005                       | 0.2439  | 0.005                    | 0.3212  | 0.005                      | 0.5713  |
| 0.010                       | -0.0323 | 0.010                    | 0.0582  | 0.010                      | 0.2813  |
| 0.020                       | -0.2931 | 0.020                    | -0.2190 | 0.020                      | -0.0748 |
| 0.040                       | -0.5328 | 0.040                    | -0.4245 | 0.040                      | -0.2755 |
| 0.060                       | -0.5656 | 0.060                    | -0.4832 | 0.060                      | -0.4012 |
| 0.080                       | -0.6120 | 0.080                    | -0.5309 | 0.080                      | -0.4307 |
| 0.100                       | -0.7243 | 0.100                    | -0.5914 | 0.100                      | -0.4485 |
| 0.125                       | -0.6402 | 0.125                    | -0.5670 | 0.125                      | -0.4400 |
| 0.150                       | -0.7379 | 0.150                    | -0.5926 | 0.150                      | -0.5132 |
| 0.175                       | -0.7436 | 0.175                    | -0.6548 | 0.175                      | -0.6102 |
| 0.200                       | -0.8074 | 0.200                    | -0.7008 | 0.200                      | -0.7122 |
| 0.250                       | -0.9045 | 0.250                    | -0.8241 | 0.250                      | -0.7071 |
| 0.300                       | -0.9797 | 0.300                    | -0.8802 | 0.300                      | -0.7344 |
| 0.350                       | -0.9941 | 0.350                    | -0.9298 | 0.350                      | -0.8134 |
| 0.400                       | -1.0172 | 0.400                    | -1.0025 | 0.400                      | -0.8565 |
| 0.450                       | -1.0378 | 0.450                    | -1.0347 | 0.450                      | -0.9138 |
| 0.500                       | -0.6032 | 0.500                    | -1.0591 | 0.500                      | -0.8961 |
| 0.550                       | -0.4095 | 0.550                    | -0.8098 | 0.550                      | -0.8644 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5098 | 0.005 | 0.5006 | 0.005 | 0.4298 |
| 0.010 | 0.2490 | 0.010 | 0.1649 | 0.010 | 0.0305 |



Fight 19 Test point 48

Sweep, deg = 20.1 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 221.8 Rnpu = 1932000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0443  | 0.000                    | 1.0855  | 0.000                      | 1.0742  |
| 0.005                       | 0.2471  | 0.005                    | 0.3243  | 0.005                      | 0.5782  |
| 0.010                       | -0.0298 | 0.010                    | 0.0602  | 0.010                      | 0.2837  |
| 0.020                       | -0.2916 | 0.020                    | -0.2155 | 0.020                      | -0.0764 |
| 0.040                       | -0.5268 | 0.040                    | -0.4178 | 0.040                      | -0.2723 |
| 0.060                       | -0.5619 | 0.060                    | -0.4788 | 0.060                      | -0.3886 |
| 0.080                       | -0.6174 | 0.080                    | -0.5287 | 0.080                      | -0.4290 |
| 0.100                       | -0.7240 | 0.100                    | -0.5891 | 0.100                      | -0.4447 |
| 0.125                       | -0.6252 | 0.125                    | -0.5677 | 0.125                      | -0.4449 |
| 0.150                       | -0.7351 | 0.150                    | -0.5889 | 0.150                      | -0.5174 |
| 0.175                       | -0.7397 | 0.175                    | -0.6492 | 0.175                      | -0.6129 |
| 0.200                       | -0.8119 | 0.200                    | -0.6976 | 0.200                      | -0.7138 |
| 0.250                       | -0.9097 | 0.250                    | -0.8197 | 0.250                      | -0.7046 |
| 0.300                       | -0.9809 | 0.300                    | -0.8862 | 0.300                      | -0.7319 |
| 0.350                       | -0.9974 | 0.350                    | -0.9352 | 0.350                      | -0.8189 |
| 0.400                       | -1.0073 | 0.400                    | -1.0011 | 0.400                      | -0.8642 |
| 0.450                       | -1.0332 | 0.450                    | -1.0372 | 0.450                      | -0.9216 |
| 0.500                       | -0.6484 | 0.500                    | -1.0532 | 0.500                      | -0.9024 |
| 0.550                       | -0.4151 | 0.550                    | -0.7590 | 0.550                      | -0.8635 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5094 | 0.005 | 0.4954 | 0.005 | 0.4272 |
| 0.010 | 0.2407 | 0.010 | 0.1628 | 0.010 | 0.0245 |

Fight 19 Test point 49

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 34800. Angle of attack, deg = -0.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 224.2 Rnpu = 1953000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9811  | 0.000                    | 1.0192  | 0.000                      | 1.0068  |
| 0.005                       | 0.4072  | 0.005                    | 0.4565  | 0.005                      | 0.6650  |
| 0.010                       | 0.1490  | 0.010                    | 0.2179  | 0.010                      | 0.4092  |
| 0.020                       | -0.1009 | 0.020                    | -0.0530 | 0.020                      | 0.0787  |
| 0.040                       | -0.3206 | 0.040                    | -0.2466 | 0.040                      | -0.1322 |
| 0.060                       | -0.4098 | 0.060                    | -0.3281 | 0.060                      | -0.2528 |
| 0.080                       | -0.4686 | 0.080                    | -0.3856 | 0.080                      | -0.3016 |
| 0.100                       | -0.4939 | 0.100                    | -0.4216 | 0.100                      | -0.3354 |
| 0.125                       | -0.5250 | 0.125                    | -0.4430 | 0.125                      | -0.3718 |
| 0.150                       | -0.5583 | 0.150                    | -0.4964 | 0.150                      | -0.4755 |
| 0.175                       | -0.6107 | 0.175                    | -0.5752 | 0.175                      | -0.5588 |
| 0.200                       | -0.6816 | 0.200                    | -0.6139 | 0.200                      | -0.5033 |
| 0.250                       | -0.7702 | 0.250                    | -0.7170 | 0.250                      | -0.5972 |
| 0.300                       | -0.8547 | 0.300                    | -0.7850 | 0.300                      | -0.6450 |
| 0.350                       | -0.8413 | 0.350                    | -0.8350 | 0.350                      | -0.7330 |
| 0.400                       | -0.8706 | 0.400                    | -0.9038 | 0.400                      | -0.7802 |
| 0.450                       | -0.8634 | 0.450                    | -0.9236 | 0.450                      | -0.8048 |
| 0.500                       | -0.5656 | 0.500                    | -0.9807 | 0.500                      | -0.8401 |
| 0.550                       | -0.3843 | 0.550                    | -0.9254 | 0.550                      | -0.7841 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2688  | 0.005 | 0.2670  | 0.005 | 0.2006  |
| 0.010 | -0.0196 | 0.010 | -0.0920 | 0.010 | -0.2303 |

Flight 20 Test point 1

Sweep, deg = 20.4 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 351.8 Rnpu = 2814000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9831  | 0.000                    | 1.0214  | 0.000                      | 1.0043  |
| 0.005                       | 0.3628  | 0.005                    | 0.4180  | 0.005                      | 0.6298  |
| 0.010                       | 0.0987  | 0.010                    | 0.1667  | 0.010                      | 0.3662  |
| 0.020                       | -0.1584 | 0.020                    | -0.1010 | 0.020                      | 0.0214  |
| 0.040                       | -0.3852 | 0.040                    | -0.3017 | 0.040                      | -0.1847 |
| 0.060                       | -0.4642 | 0.060                    | -0.3792 | 0.060                      | -0.3064 |
| 0.080                       | -0.5097 | 0.080                    | -0.4413 | 0.080                      | -0.3583 |
| 0.100                       | -0.5233 | 0.100                    | -0.4660 | 0.100                      | -0.3946 |
| 0.125                       | -0.5813 | 0.125                    | -0.4992 | 0.125                      | -0.4264 |
| 0.150                       | -0.6419 | 0.150                    | -0.5359 | 0.150                      | -0.5144 |
| 0.175                       | -0.6329 | 0.175                    | -0.6003 | 0.175                      | -0.5005 |
| 0.200                       | -0.7142 | 0.200                    | -0.6483 | 0.200                      | -0.5455 |
| 0.250                       | -0.8210 | 0.250                    | -0.7529 | 0.250                      | -0.6325 |
| 0.300                       | -0.8840 | 0.300                    | -0.8204 | 0.300                      | -0.7152 |
| 0.350                       | -0.8735 | 0.350                    | -0.8767 | 0.350                      | -0.7933 |
| 0.400                       | -0.9193 | 0.400                    | -0.9519 | 0.400                      | -0.8421 |
| 0.450                       | -0.9301 | 0.450                    | -0.9814 | 0.450                      | -0.8826 |
| 0.500                       | -1.0292 | 0.500                    | -1.0376 | 0.500                      | -0.9168 |
| 0.550                       | -0.5026 | 0.550                    | -0.5497 | 0.550                      | -0.9689 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3127 | 0.005 | 0.3047  | 0.005 | 0.2371  |
| 0.010 | 0.0306 | 0.010 | -0.0397 | 0.010 | -0.1848 |

Fight 20 Test point 2

Sweep, deg = 20.4 Mach = 0.80 hp, ft = 24900. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 353.5 Rnpu = 2818000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0418  | 0.000                    | 1.0847  | 0.000                      | 1.0665  |
| 0.005                       | 0.4377  | 0.005                    | 0.5095  | 0.005                      | 0.7137  |
| 0.010                       | 0.1652  | 0.010                    | 0.2549  | 0.010                      | 0.4553  |
| 0.020                       | -0.0973 | 0.020                    | -0.0247 | 0.020                      | 0.1072  |
| 0.040                       | -0.3324 | 0.040                    | -0.2336 | 0.040                      | -0.1090 |
| 0.060                       | -0.4173 | 0.060                    | -0.3173 | 0.060                      | -0.2366 |
| 0.080                       | -0.4737 | 0.080                    | -0.3797 | 0.080                      | -0.2924 |
| 0.100                       | -0.4969 | 0.100                    | -0.4161 | 0.100                      | -0.3353 |
| 0.125                       | -0.5414 | 0.125                    | -0.4425 | 0.125                      | -0.3722 |
| 0.150                       | -0.6019 | 0.150                    | -0.4971 | 0.150                      | -0.4341 |
| 0.175                       | -0.6038 | 0.175                    | -0.5633 | 0.175                      | -0.4677 |
| 0.200                       | -0.6826 | 0.200                    | -0.6094 | 0.200                      | -0.4955 |
| 0.250                       | -0.8168 | 0.250                    | -0.7183 | 0.250                      | -0.5914 |
| 0.300                       | -0.8816 | 0.300                    | -0.7982 | 0.300                      | -0.6714 |
| 0.350                       | -0.9026 | 0.350                    | -0.8547 | 0.350                      | -0.7489 |
| 0.400                       | -0.9134 | 0.400                    | -0.9263 | 0.400                      | -0.7990 |
| 0.450                       | -0.9372 | 0.450                    | -0.9683 | 0.450                      | -0.8516 |
| 0.500                       | -1.0196 | 0.500                    | -1.0193 | 0.500                      | -0.8605 |
| 0.550                       | -0.4702 | 0.550                    | -0.9405 | 0.550                      | -0.8649 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3264 | 0.005 | 0.3087  | 0.005 | 0.2399  |
| 0.010 | 0.0373 | 0.010 | -0.0577 | 0.010 | -0.2051 |

Flight 20 Test point 3

Sweep, deg = 20.4 Mach = 0.81 hp, ft = 25000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 356.0 Rnpu = 2830000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9874  | 0.000                    | 1.0258  | 0.000                      | 1.0100  |
| 0.005                       | 0.2904  | 0.005                    | 0.3490  | 0.005                      | 0.5749  |
| 0.010                       | 0.0246  | 0.010                    | 0.0925  | 0.010                      | 0.2987  |
| 0.020                       | -0.2337 | 0.020                    | -0.1746 | 0.020                      | -0.0521 |
| 0.040                       | -0.4568 | 0.040                    | -0.3713 | 0.040                      | -0.2487 |
| 0.060                       | -0.5204 | 0.060                    | -0.4484 | 0.060                      | -0.3697 |
| 0.080                       | -0.5707 | 0.080                    | -0.4963 | 0.080                      | -0.4147 |
| 0.100                       | -0.6086 | 0.100                    | -0.5793 | 0.100                      | -0.4445 |
| 0.125                       | -0.5753 | 0.125                    | -0.4983 | 0.125                      | -0.4610 |
| 0.150                       | -0.6900 | 0.150                    | -0.5717 | 0.150                      | -0.5446 |
| 0.175                       | -0.6916 | 0.175                    | -0.6371 | 0.175                      | -0.6227 |
| 0.200                       | -0.7591 | 0.200                    | -0.6791 | 0.200                      | -0.5828 |
| 0.250                       | -0.8733 | 0.250                    | -0.7914 | 0.250                      | -0.6759 |
| 0.300                       | -0.9264 | 0.300                    | -0.8581 | 0.300                      | -0.7275 |
| 0.350                       | -0.9365 | 0.350                    | -0.9091 | 0.350                      | -0.8135 |
| 0.400                       | -0.9494 | 0.400                    | -0.9856 | 0.400                      | -0.8726 |
| 0.450                       | -0.9475 | 0.450                    | -1.0098 | 0.450                      | -0.9274 |
| 0.500                       | -1.0558 | 0.500                    | -1.0677 | 0.500                      | -0.9389 |
| 0.550                       | -0.4528 | 0.550                    | -0.4522 | 0.550                      | -0.7748 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3949 | 0.005 | 0.3862 | 0.005 | 0.3228  |
| 0.010 | 0.1261 | 0.010 | 0.0544 | 0.010 | -0.0801 |

Fight 20 Test point 4

Sweep, deg = 20.4 Mach = 0.81 hp, ft = 25000. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 356.1 Rnpu = 2833000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9801  | 0.000                    | 1.0159  | 0.000                      | 1.0063  |
| 0.005                       | 0.1429  | 0.005                    | 0.2057  | 0.005                      | 0.4527  |
| 0.010                       | -0.1288 | 0.010                    | -0.0608 | 0.010                      | 0.1595  |
| 0.020                       | -0.3827 | 0.020                    | -0.3199 | 0.020                      | -0.2049 |
| 0.040                       | -0.6206 | 0.040                    | -0.5172 | 0.040                      | -0.3899 |
| 0.060                       | -0.6667 | 0.060                    | -0.5745 | 0.060                      | -0.5085 |
| 0.080                       | -0.6959 | 0.080                    | -0.6287 | 0.080                      | -0.5716 |
| 0.100                       | -0.7339 | 0.100                    | -0.6555 | 0.100                      | -0.5650 |
| 0.125                       | -0.6756 | 0.125                    | -0.6921 | 0.125                      | -0.5544 |
| 0.150                       | -0.8121 | 0.150                    | -0.7160 | 0.150                      | -0.5911 |
| 0.175                       | -0.7818 | 0.175                    | -0.7287 | 0.175                      | -0.6854 |
| 0.200                       | -0.8429 | 0.200                    | -0.7645 | 0.200                      | -0.7032 |
| 0.250                       | -0.9491 | 0.250                    | -0.8653 | 0.250                      | -0.7684 |
| 0.300                       | -1.0324 | 0.300                    | -0.9323 | 0.300                      | -0.8138 |
| 0.350                       | -1.0349 | 0.350                    | -0.9828 | 0.350                      | -0.8964 |
| 0.400                       | -1.0265 | 0.400                    | -1.0462 | 0.400                      | -0.9448 |
| 0.450                       | -0.9631 | 0.450                    | -1.0905 | 0.450                      | -0.9980 |
| 0.500                       | -0.5355 | 0.500                    | -0.9324 | 0.500                      | -0.9908 |
| 0.550                       | -0.4466 | 0.550                    | -0.4841 | 0.550                      | -0.5113 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5228 | 0.005 | 0.5139 | 0.005 | 0.4564 |
| 0.010 | 0.2730 | 0.010 | 0.2107 | 0.010 | 0.0936 |

Fight 20 Test point 5

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 353.5 Rnpu = 2820000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9059  | 0.000                    | 0.9440  | 0.000                      | 0.9303  |
| 0.005                       | 0.2813  | 0.005                    | 0.3206  | 0.005                      | 0.5292  |
| 0.010                       | 0.0307  | 0.010                    | 0.0804  | 0.010                      | 0.2715  |
| 0.020                       | -0.2138 | 0.020                    | -0.1703 | 0.020                      | -0.0580 |
| 0.040                       | -0.4174 | 0.040                    | -0.3572 | 0.040                      | -0.2498 |
| 0.060                       | -0.4829 | 0.060                    | -0.4212 | 0.060                      | -0.3578 |
| 0.080                       | -0.5185 | 0.080                    | -0.4755 | 0.080                      | -0.3975 |
| 0.100                       | -0.5358 | 0.100                    | -0.4921 | 0.100                      | -0.4257 |
| 0.125                       | -0.5957 | 0.125                    | -0.5145 | 0.125                      | -0.4615 |
| 0.150                       | -0.6435 | 0.150                    | -0.5422 | 0.150                      | -0.5522 |
| 0.175                       | -0.6418 | 0.175                    | -0.6154 | 0.175                      | -0.5354 |
| 0.200                       | -0.7204 | 0.200                    | -0.6519 | 0.200                      | -0.5419 |
| 0.250                       | -0.7947 | 0.250                    | -0.7524 | 0.250                      | -0.6442 |
| 0.300                       | -0.8747 | 0.300                    | -0.8210 | 0.300                      | -0.7120 |
| 0.350                       | -0.8572 | 0.350                    | -0.8688 | 0.350                      | -0.7858 |
| 0.400                       | -0.8634 | 0.400                    | -0.9396 | 0.400                      | -0.8341 |
| 0.450                       | -0.7302 | 0.450                    | -0.9588 | 0.450                      | -0.8573 |
| 0.500                       | -0.8135 | 0.500                    | -0.9978 | 0.500                      | -0.9313 |
| 0.550                       | -0.4116 | 0.550                    | -0.6458 | 0.550                      | -0.5959 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2977 | 0.005 | 0.3071  | 0.005 | 0.2457  |
| 0.010 | 0.0363 | 0.010 | -0.0128 | 0.010 | -0.1395 |

Fight 20 Test point 6

Sweep, deg = 25.3 Mach = 0.81 hp, ft = 24900. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 358.4 Rrho = 2849000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9077  | 0.000                    | 0.9411  | 0.000                      | 0.9339  |
| 0.005                       | 0.2209  | 0.005                    | 0.2612  | 0.005                      | 0.4833  |
| 0.010                       | -0.0349 | 0.010                    | 0.0178  | 0.010                      | 0.2161  |
| 0.020                       | -0.2754 | 0.020                    | -0.2344 | 0.020                      | -0.1181 |
| 0.040                       | -0.4843 | 0.040                    | -0.4194 | 0.040                      | -0.3039 |
| 0.060                       | -0.5375 | 0.060                    | -0.4805 | 0.060                      | -0.4129 |
| 0.080                       | -0.5638 | 0.080                    | -0.5259 | 0.080                      | -0.4487 |
| 0.100                       | -0.6027 | 0.100                    | -0.6128 | 0.100                      | -0.4660 |
| 0.125                       | -0.5993 | 0.125                    | -0.5093 | 0.125                      | -0.4776 |
| 0.150                       | -0.6905 | 0.150                    | -0.5825 | 0.150                      | -0.5707 |
| 0.175                       | -0.6883 | 0.175                    | -0.6531 | 0.175                      | -0.6372 |
| 0.200                       | -0.7511 | 0.200                    | -0.6880 | 0.200                      | -0.5908 |
| 0.250                       | -0.8447 | 0.250                    | -0.7921 | 0.250                      | -0.6777 |
| 0.300                       | -0.9078 | 0.300                    | -0.8440 | 0.300                      | -0.7365 |
| 0.350                       | -0.8922 | 0.350                    | -0.8982 | 0.350                      | -0.8182 |
| 0.400                       | -0.9163 | 0.400                    | -0.9670 | 0.400                      | -0.8662 |
| 0.450                       | -0.9097 | 0.450                    | -0.9976 | 0.450                      | -0.9050 |
| 0.500                       | -0.8119 | 0.500                    | -1.0422 | 0.500                      | -0.9540 |
| 0.550                       | -0.4626 | 0.550                    | -0.5278 | 0.550                      | -0.6558 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3663 | 0.005 | 0.3647 | 0.005 | 0.3087  |
| 0.010 | 0.1101 | 0.010 | 0.0615 | 0.010 | -0.0600 |



Fight 20 Test point 7

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 353.2 Rnpu = 2820000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8963  | 0.000                    | 0.9268  | 0.000                      | 0.9220  |
| 0.005                       | 0.0658  | 0.005                    | 0.1073  | 0.005                      | 0.3523  |
| 0.010                       | -0.1948 | 0.010                    | -0.1472 | 0.010                      | 0.0621  |
| 0.020                       | -0.4357 | 0.020                    | -0.3986 | 0.020                      | -0.2891 |
| 0.040                       | -0.6688 | 0.040                    | -0.5609 | 0.040                      | -0.4619 |
| 0.060                       | -0.7110 | 0.060                    | -0.6171 | 0.060                      | -0.5878 |
| 0.080                       | -0.7204 | 0.080                    | -0.6644 | 0.080                      | -0.6268 |
| 0.100                       | -0.7301 | 0.100                    | -0.6774 | 0.100                      | -0.6039 |
| 0.125                       | -0.6553 | 0.125                    | -0.7319 | 0.125                      | -0.5852 |
| 0.150                       | -0.7861 | 0.150                    | -0.6996 | 0.150                      | -0.6035 |
| 0.175                       | -0.7688 | 0.175                    | -0.7493 | 0.175                      | -0.7284 |
| 0.200                       | -0.8309 | 0.200                    | -0.7646 | 0.200                      | -0.7046 |
| 0.250                       | -0.9370 | 0.250                    | -0.8651 | 0.250                      | -0.7871 |
| 0.300                       | -0.9808 | 0.300                    | -0.9153 | 0.300                      | -0.8213 |
| 0.350                       | -0.9799 | 0.350                    | -0.9751 | 0.350                      | -0.8952 |
| 0.400                       | -0.9759 | 0.400                    | -1.0560 | 0.400                      | -0.9442 |
| 0.450                       | -0.9977 | 0.450                    | -1.0704 | 0.450                      | -0.9958 |
| 0.500                       | -1.0958 | 0.500                    | -1.0888 | 0.500                      | -1.0140 |
| 0.550                       | -0.4564 | 0.550                    | -0.4716 | 0.550                      | -0.4608 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4901 | 0.005 | 0.4930 | 0.005 | 0.4467 |
| 0.010 | 0.2584 | 0.010 | 0.2192 | 0.010 | 0.1161 |

Flight 20 Test point 8

Sweep, deg = 30.3 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 354.3 Rnpu = 2825000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8107  | 0.000                    | 0.8418  | 0.000                      | 0.8370  |
| 0.005                       | 0.1398  | 0.005                    | 0.1654  | 0.005                      | 0.3780  |
| 0.010                       | -0.0956 | 0.010                    | -0.0619 | 0.010                      | 0.1205  |
| 0.020                       | -0.3193 | 0.020                    | -0.2977 | 0.020                      | -0.1919 |
| 0.040                       | -0.4856 | 0.040                    | -0.4542 | 0.040                      | -0.3504 |
| 0.060                       | -0.5780 | 0.060                    | -0.4911 | 0.060                      | -0.4494 |
| 0.080                       | -0.5570 | 0.080                    | -0.5270 | 0.080                      | -0.4742 |
| 0.100                       | -0.5653 | 0.100                    | -0.5519 | 0.100                      | -0.4812 |
| 0.125                       | -0.6057 | 0.125                    | -0.5528 | 0.125                      | -0.4986 |
| 0.150                       | -0.6607 | 0.150                    | -0.5980 | 0.150                      | -0.6061 |
| 0.175                       | -0.6611 | 0.175                    | -0.6564 | 0.175                      | -0.6180 |
| 0.200                       | -0.7212 | 0.200                    | -0.6679 | 0.200                      | -0.5739 |
| 0.250                       | -0.7809 | 0.250                    | -0.7659 | 0.250                      | -0.6525 |
| 0.300                       | -0.7094 | 0.300                    | -0.8159 | 0.300                      | -0.7103 |
| 0.350                       | -0.7371 | 0.350                    | -0.8439 | 0.350                      | -0.7843 |
| 0.400                       | -0.7392 | 0.400                    | -0.8922 | 0.400                      | -0.8189 |
| 0.450                       | -0.7473 | 0.450                    | -0.8525 | 0.450                      | -0.8432 |
| 0.500                       | -0.5179 | 0.500                    | -0.4972 | 0.500                      | -0.3672 |
| 0.550                       | -0.3954 | 0.550                    | -0.4358 | 0.550                      | -0.3883 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3213 | 0.005 | 0.3404 | 0.005 | 0.2944  |
| 0.010 | 0.0924 | 0.010 | 0.0616 | 0.010 | -0.0358 |

Fight 20 Test point 9

Sweep, deg = 30.4 Mach = 0.81 hp, ft = 24900. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 358.4 Rnpu = 2849000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8053  | 0.000                    | 0.8400  | 0.000                      | 0.8340  |
| 0.005                       | 0.1257  | 0.005                    | 0.1505  | 0.005                      | 0.3656  |
| 0.010                       | -0.1095 | 0.010                    | -0.0756 | 0.010                      | 0.1054  |
| 0.020                       | -0.3308 | 0.020                    | -0.3080 | 0.020                      | -0.2048 |
| 0.040                       | -0.5004 | 0.040                    | -0.4685 | 0.040                      | -0.3686 |
| 0.060                       | -0.5763 | 0.060                    | -0.5016 | 0.060                      | -0.4653 |
| 0.080                       | -0.5513 | 0.080                    | -0.5383 | 0.080                      | -0.4844 |
| 0.100                       | -0.5499 | 0.100                    | -0.6001 | 0.100                      | -0.4764 |
| 0.125                       | -0.6093 | 0.125                    | -0.5617 | 0.125                      | -0.4999 |
| 0.150                       | -0.6652 | 0.150                    | -0.6017 | 0.150                      | -0.6077 |
| 0.175                       | -0.6640 | 0.175                    | -0.6545 | 0.175                      | -0.6287 |
| 0.200                       | -0.7328 | 0.200                    | -0.6813 | 0.200                      | -0.6095 |
| 0.250                       | -0.7862 | 0.250                    | -0.7697 | 0.250                      | -0.6714 |
| 0.300                       | -0.6869 | 0.300                    | -0.8215 | 0.300                      | -0.7104 |
| 0.350                       | -0.7281 | 0.350                    | -0.8555 | 0.350                      | -0.7898 |
| 0.400                       | -0.7383 | 0.400                    | -0.9127 | 0.400                      | -0.8285 |
| 0.450                       | -0.7500 | 0.450                    | -0.8788 | 0.450                      | -0.8491 |
| 0.500                       | -0.5849 | 0.500                    | -0.5730 | 0.500                      | -0.3914 |
| 0.550                       | -0.3930 | 0.550                    | -0.4227 | 0.550                      | -0.3744 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3369 | 0.005 | 0.3524 | 0.005 | 0.3086  |
| 0.010 | 0.1069 | 0.010 | 0.0757 | 0.010 | -0.0169 |

Flight 20 Test point 10

Sweep, deg = 30.4 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 352.7 Rrho = 2820000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7980  | 0.000                    | 0.8241  | 0.000                      | 0.8172  |
| 0.005                       | -0.0109 | 0.005                    | 0.0070  | 0.005                      | 0.2458  |
| 0.010                       | -0.2517 | 0.010                    | -0.2257 | 0.010                      | -0.0346 |
| 0.020                       | -0.4785 | 0.020                    | -0.4515 | 0.020                      | -0.3633 |
| 0.040                       | -0.7094 | 0.040                    | -0.5987 | 0.040                      | -0.5095 |
| 0.060                       | -0.6527 | 0.060                    | -0.6314 | 0.060                      | -0.6153 |
| 0.080                       | -0.7013 | 0.080                    | -0.6416 | 0.080                      | -0.6601 |
| 0.100                       | -0.7199 | 0.100                    | -0.7108 | 0.100                      | -0.6132 |
| 0.125                       | -0.6622 | 0.125                    | -0.7748 | 0.125                      | -0.5466 |
| 0.150                       | -0.7551 | 0.150                    | -0.7225 | 0.150                      | -0.6450 |
| 0.175                       | -0.7321 | 0.175                    | -0.6989 | 0.175                      | -0.7153 |
| 0.200                       | -0.8208 | 0.200                    | -0.7494 | 0.200                      | -0.6974 |
| 0.250                       | -0.8841 | 0.250                    | -0.8496 | 0.250                      | -0.7684 |
| 0.300                       | -0.9230 | 0.300                    | -0.8724 | 0.300                      | -0.8003 |
| 0.350                       | -0.8872 | 0.350                    | -0.9269 | 0.350                      | -0.8727 |
| 0.400                       | -0.7429 | 0.400                    | -0.9903 | 0.400                      | -0.9039 |
| 0.450                       | -0.7626 | 0.450                    | -1.0023 | 0.450                      | -0.9244 |
| 0.500                       | -0.5971 | 0.500                    | -0.6741 | 0.500                      | -0.5848 |
| 0.550                       | -0.3910 | 0.550                    | -0.4179 | 0.550                      | -0.3564 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4405 | 0.005 | 0.4619 | 0.005 | 0.4263 |
| 0.010 | 0.2290 | 0.010 | 0.2150 | 0.010 | 0.1326 |

Fight 20 Test point 11

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 271.1 Rnpu = 2438000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9436  | 0.000                    | 0.9901  | 0.000                      | 0.9869  |
| 0.005                       | 0.0009  | 0.005                    | 0.0699  | 0.005                      | 0.3813  |
| 0.010                       | -0.2821 | 0.010                    | -0.2052 | 0.010                      | 0.0647  |
| 0.020                       | -0.5379 | 0.020                    | -0.4694 | 0.020                      | -0.2962 |
| 0.040                       | -0.7070 | 0.040                    | -0.6179 | 0.040                      | -0.4603 |
| 0.060                       | -0.7348 | 0.060                    | -0.6453 | 0.060                      | -0.5381 |
| 0.080                       | -0.7437 | 0.080                    | -0.6695 | 0.080                      | -0.5504 |
| 0.100                       | -0.7607 | 0.100                    | -0.6739 | 0.100                      | -0.5627 |
| 0.125                       | -0.6568 | 0.125                    | -0.6688 | 0.125                      | -0.5648 |
| 0.150                       | -0.7642 | 0.150                    | -0.7046 | 0.150                      | -0.5884 |
| 0.175                       | -0.7392 | 0.175                    | -0.7344 | 0.175                      | -0.6068 |
| 0.200                       | -0.7988 | 0.200                    | -0.7494 | 0.200                      | -0.6124 |
| 0.250                       | -0.7920 | 0.250                    | -0.7914 | 0.250                      | -0.6433 |
| 0.300                       | -0.7602 | 0.300                    | -0.7714 | 0.300                      | -0.6395 |
| 0.350                       | -0.6864 | 0.350                    | -0.7098 | 0.350                      | -0.6361 |
| 0.400                       | -0.6201 | 0.400                    | -0.6772 | 0.400                      | -0.6031 |
| 0.450                       | -0.5474 | 0.450                    | -0.6011 | 0.450                      | -0.5628 |
| 0.500                       | -0.5206 | 0.500                    | -0.5767 | 0.500                      | -0.5155 |
| 0.550                       | -0.4438 | 0.550                    | -0.5542 | 0.550                      | -0.4846 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4993 | 0.005 | 0.4986 | 0.005 | 0.4169 |
| 0.010 | 0.2475 | 0.010 | 0.1924 | 0.010 | 0.0453 |

Fight 20 Test point 12

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 24900. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = -5.2 QBAR, lb/ft<sup>2</sup> = 268.8 Rnpu = 2424000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |                   | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------------------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp                | x/c                        | Cp      |
| 0.000                       | 0.9914  | 0.000                    | <del>1.0395</del> | 0.000                      | 1.0451  |
| 0.005                       | -0.0305 | 0.005                    | 0.0709            | 0.005                      | 0.4126  |
| 0.010                       | -0.3246 | 0.010                    | -0.2180           | 0.010                      | 0.0840  |
| 0.020                       | -0.5855 | 0.020                    | -0.4868           | 0.020                      | -0.2899 |
| 0.040                       | -0.7710 | 0.040                    | -0.6476           | 0.040                      | -0.4595 |
| 0.060                       | -0.7955 | 0.060                    | -0.6694           | 0.060                      | -0.5352 |
| 0.080                       | -0.7984 | 0.080                    | -0.6936           | 0.080                      | -0.5514 |
| 0.100                       | -0.8102 | 0.100                    | -0.6987           | 0.100                      | -0.5624 |
| 0.125                       | -0.6984 | 0.125                    | -0.6938           | 0.125                      | -0.5626 |
| 0.150                       | -0.8145 | 0.150                    | -0.7221           | 0.150                      | -0.5951 |
| 0.175                       | -0.7775 | 0.175                    | -0.7579           | 0.175                      | -0.6132 |
| 0.200                       | -0.8463 | 0.200                    | -0.7765           | 0.200                      | -0.6171 |
| 0.250                       | -0.8303 | 0.250                    | -0.8164           | 0.250                      | -0.6568 |
| 0.300                       | -0.7881 | 0.300                    | -0.7968           | 0.300                      | -0.6479 |
| 0.350                       | -0.7038 | 0.350                    | -0.7399           | 0.350                      | -0.6504 |
| 0.400                       | -0.6263 | 0.400                    | -0.6771           | 0.400                      | -0.6228 |
| 0.450                       | -0.5511 | 0.450                    | -0.6047           | 0.450                      | -0.5600 |
| 0.500                       | -0.5201 | 0.500                    | -0.5835           | 0.500                      | -0.5197 |
| 0.550                       | -0.4372 | 0.550                    | -0.5531           | 0.550                      | -0.4810 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5808 | 0.005 | 0.5663 | 0.005 | 0.4690 |
| 0.010 | 0.3292 | 0.010 | 0.2537 | 0.010 | 0.0836 |

Flight 20 Test point 13

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 25300. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 264.3 Rnpu = 2393000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9606  | 0.000                    | 1.0019  | 0.000                      | 0.9913  |
| 0.005                       | 0.2011  | 0.005                    | 0.2632  | 0.005                      | 0.5330  |
| 0.010                       | -0.0725 | 0.010                    | 0.0010  | 0.010                      | 0.2450  |
| 0.020                       | -0.3334 | 0.020                    | -0.2670 | 0.020                      | -0.1018 |
| 0.040                       | -0.5139 | 0.040                    | -0.4357 | 0.040                      | -0.2786 |
| 0.060                       | -0.5640 | 0.060                    | -0.4871 | 0.060                      | -0.3752 |
| 0.080                       | -0.5955 | 0.080                    | -0.5154 | 0.080                      | -0.4079 |
| 0.100                       | -0.6092 | 0.100                    | -0.5313 | 0.100                      | -0.4288 |
| 0.125                       | -0.5550 | 0.125                    | -0.5476 | 0.125                      | -0.4474 |
| 0.150                       | -0.6452 | 0.150                    | -0.5803 | 0.150                      | -0.4825 |
| 0.175                       | -0.6391 | 0.175                    | -0.6163 | 0.175                      | -0.5036 |
| 0.200                       | -0.6887 | 0.200                    | -0.6388 | 0.200                      | -0.5136 |
| 0.250                       | -0.6937 | 0.250                    | -0.6849 | 0.250                      | -0.5553 |
| 0.300                       | -0.6836 | 0.300                    | -0.6796 | 0.300                      | -0.5605 |
| 0.350                       | -0.6265 | 0.350                    | -0.6445 | 0.350                      | -0.5708 |
| 0.400                       | -0.5765 | 0.400                    | -0.6311 | 0.400                      | -0.5505 |
| 0.450                       | -0.5148 | 0.450                    | -0.5541 | 0.450                      | -0.5261 |
| 0.500                       | -0.4914 | 0.500                    | -0.5448 | 0.500                      | -0.4808 |
| 0.550                       | -0.4218 | 0.550                    | -0.5280 | 0.550                      | -0.4612 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3408 | 0.005 | 0.3384 | 0.005 | 0.2405  |
| 0.010 | 0.0704 | 0.010 | 0.0021 | 0.010 | -0.1756 |

Fight 20 Test point 14

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 270.4 Rnpu = 2432000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8586  | 0.000                    | 0.8951  | 0.000                      | 0.9003  |
| 0.005                       | -0.0919 | 0.005                    | -0.0441 | 0.005                      | 0.2714  |
| 0.010                       | -0.3537 | 0.010                    | -0.3012 | 0.010                      | -0.0353 |
| 0.020                       | -0.5845 | 0.020                    | -0.5311 | 0.020                      | -0.3760 |
| 0.040                       | -0.7222 | 0.040                    | -0.6552 | 0.040                      | -0.5090 |
| 0.060                       | -0.7303 | 0.060                    | -0.6640 | 0.060                      | -0.5654 |
| 0.080                       | -0.7309 | 0.080                    | -0.6708 | 0.080                      | -0.5678 |
| 0.100                       | -0.7308 | 0.100                    | -0.6647 | 0.100                      | -0.5755 |
| 0.125                       | -0.6346 | 0.125                    | -0.6597 | 0.125                      | -0.5654 |
| 0.150                       | -0.7246 | 0.150                    | -0.6800 | 0.150                      | -0.5832 |
| 0.175                       | -0.6951 | 0.175                    | -0.6999 | 0.175                      | -0.5951 |
| 0.200                       | -0.7422 | 0.200                    | -0.7036 | 0.200                      | -0.5838 |
| 0.250                       | -0.7349 | 0.250                    | -0.7393 | 0.250                      | -0.6098 |
| 0.300                       | -0.7081 | 0.300                    | -0.7052 | 0.300                      | -0.5938 |
| 0.350                       | -0.6447 | 0.350                    | -0.6523 | 0.350                      | -0.5943 |
| 0.400                       | -0.5847 | 0.400                    | -0.6311 | 0.400                      | -0.5633 |
| 0.450                       | -0.5214 | 0.450                    | -0.5661 | 0.450                      | -0.5328 |
| 0.500                       | -0.4969 | 0.500                    | -0.5418 | 0.500                      | -0.4852 |
| 0.550                       | -0.4240 | 0.550                    | -0.5264 | 0.550                      | -0.4682 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4910 | 0.005 | 0.5090 | 0.005 | 0.4361 |
| 0.010 | 0.2650 | 0.010 | 0.2347 | 0.010 | 0.1063 |



Flight 20 Test point 15

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 24300. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 270.0 Rnpu = 2431000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9216  | 0.000                    | 0.9622  | 0.000                      | 0.9727  |
| 0.005                       | -0.0927 | 0.005                    | -0.0093 | 0.005                      | 0.3248  |
| 0.010                       | -0.3738 | 0.010                    | -0.2863 | 0.010                      | 0.0015  |
| 0.020                       | -0.6182 | 0.020                    | -0.5343 | 0.020                      | -0.3542 |
| 0.040                       | -0.7742 | 0.040                    | -0.6734 | 0.040                      | -0.4973 |
| 0.060                       | -0.7800 | 0.060                    | -0.6835 | 0.060                      | -0.5579 |
| 0.080                       | -0.7783 | 0.080                    | -0.6961 | 0.080                      | -0.5706 |
| 0.100                       | -0.7858 | 0.100                    | -0.6886 | 0.100                      | -0.5754 |
| 0.125                       | -0.6668 | 0.125                    | -0.6816 | 0.125                      | -0.5723 |
| 0.150                       | -0.7722 | 0.150                    | -0.7046 | 0.150                      | -0.5893 |
| 0.175                       | -0.7390 | 0.175                    | -0.7355 | 0.175                      | -0.6012 |
| 0.200                       | -0.7904 | 0.200                    | -0.7482 | 0.200                      | -0.6052 |
| 0.250                       | -0.7750 | 0.250                    | -0.7756 | 0.250                      | -0.6324 |
| 0.300                       | -0.7417 | 0.300                    | -0.7432 | 0.300                      | -0.6196 |
| 0.350                       | -0.6645 | 0.350                    | -0.6767 | 0.350                      | -0.6120 |
| 0.400                       | -0.6013 | 0.400                    | -0.6520 | 0.400                      | -0.5795 |
| 0.450                       | -0.5270 | 0.450                    | -0.5762 | 0.450                      | -0.5426 |
| 0.500                       | -0.4966 | 0.500                    | -0.5591 | 0.500                      | -0.4907 |
| 0.550                       | -0.4210 | 0.550                    | -0.5294 | 0.550                      | -0.4681 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5619 | 0.005 | 0.5599 | 0.005 | 0.4772 |
| 0.010 | 0.3259 | 0.010 | 0.2747 | 0.010 | 0.1262 |

Flight 20 Test point 16

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 24900. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 272.1 Rnpu = 2446000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8817  | 0.000                    | 0.9196  | 0.000                      | 0.9109  |
| 0.005                       | 0.1325  | 0.005                    | 0.1810  | 0.005                      | 0.4489  |
| 0.010                       | -0.1211 | 0.010                    | -0.0614 | 0.010                      | 0.1753  |
| 0.020                       | -0.3544 | 0.020                    | -0.3000 | 0.020                      | -0.1477 |
| 0.040                       | -0.5118 | 0.040                    | -0.4487 | 0.040                      | -0.3142 |
| 0.060                       | -0.5513 | 0.060                    | -0.4837 | 0.060                      | -0.3851 |
| 0.080                       | -0.5746 | 0.080                    | -0.5082 | 0.080                      | -0.4120 |
| 0.100                       | -0.5786 | 0.100                    | -0.5180 | 0.100                      | -0.4303 |
| 0.125                       | -0.5266 | 0.125                    | -0.5280 | 0.125                      | -0.4394 |
| 0.150                       | -0.6050 | 0.150                    | -0.5507 | 0.150                      | -0.4644 |
| 0.175                       | -0.5912 | 0.175                    | -0.5835 | 0.175                      | -0.4885 |
| 0.200                       | -0.6381 | 0.200                    | -0.5942 | 0.200                      | -0.4819 |
| 0.250                       | -0.6456 | 0.250                    | -0.6370 | 0.250                      | -0.5201 |
| 0.300                       | -0.6345 | 0.300                    | -0.6215 | 0.300                      | -0.5197 |
| 0.350                       | -0.5835 | 0.350                    | -0.5899 | 0.350                      | -0.5339 |
| 0.400                       | -0.5394 | 0.400                    | -0.5846 | 0.400                      | -0.5129 |
| 0.450                       | -0.4846 | 0.450                    | -0.5227 | 0.450                      | -0.4913 |
| 0.500                       | -0.4646 | 0.500                    | -0.5118 | 0.500                      | -0.4569 |
| 0.550                       | -0.4022 | 0.550                    | -0.4990 | 0.550                      | -0.4492 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3256 | 0.005 | 0.3325 | 0.005 | 0.2477  |
| 0.010 | 0.0746 | 0.010 | 0.0276 | 0.010 | -0.1274 |

Flight 20 Test point 17

Sweep, deg = 25.3 Mach = 0.71 hp, ft = 24700. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 279.7 Rrho = 2484000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8652  | 0.000                    | 0.9014  | 0.000                      | 0.9041  |
| 0.005                       | -0.0258 | 0.005                    | 0.0169  | 0.005                      | 0.3114  |
| 0.010                       | -0.2902 | 0.010                    | -0.2385 | 0.010                      | 0.0133  |
| 0.020                       | -0.5222 | 0.020                    | -0.4771 | 0.020                      | -0.3219 |
| 0.040                       | -0.6715 | 0.040                    | -0.6113 | 0.040                      | -0.4660 |
| 0.060                       | -0.6882 | 0.060                    | -0.6270 | 0.060                      | -0.5285 |
| 0.080                       | -0.6923 | 0.080                    | -0.6397 | 0.080                      | -0.5379 |
| 0.100                       | -0.7011 | 0.100                    | -0.6376 | 0.100                      | -0.5470 |
| 0.125                       | -0.6199 | 0.125                    | -0.6284 | 0.125                      | -0.5419 |
| 0.150                       | -0.7055 | 0.150                    | -0.6549 | 0.150                      | -0.5573 |
| 0.175                       | -0.6787 | 0.175                    | -0.6822 | 0.175                      | -0.5741 |
| 0.200                       | -0.7290 | 0.200                    | -0.6887 | 0.200                      | -0.5631 |
| 0.250                       | -0.7259 | 0.250                    | -0.7235 | 0.250                      | -0.5986 |
| 0.300                       | -0.7037 | 0.300                    | -0.6972 | 0.300                      | -0.5886 |
| 0.350                       | -0.6406 | 0.350                    | -0.6461 | 0.350                      | -0.5882 |
| 0.400                       | -0.5832 | 0.400                    | -0.6265 | 0.400                      | -0.5575 |
| 0.450                       | -0.5158 | 0.450                    | -0.5645 | 0.450                      | -0.5272 |
| 0.500                       | -0.4926 | 0.500                    | -0.5399 | 0.500                      | -0.4819 |
| 0.550                       | -0.4222 | 0.550                    | -0.5206 | 0.550                      | -0.4666 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4489 | 0.005 | 0.4742 | 0.005 | 0.4022 |
| 0.010 | 0.2132 | 0.010 | 0.1895 | 0.010 | 0.0607 |

Fight 20 Test point 18

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 19900. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 336.4 Rnpu = 2923000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9584  | 0.000                    | 0.9938  | 0.000                      | 0.5852  |
| 0.005                       | 0.1556  | 0.005                    | 0.2245  | 0.005                      | 0.5055  |
| 0.010                       | -0.1228 | 0.010                    | -0.0485 | 0.010                      | 0.2125  |
| 0.020                       | -0.3792 | 0.020                    | -0.3106 | 0.020                      | -0.1390 |
| 0.040                       | -0.5608 | 0.040                    | -0.4731 | 0.040                      | -0.3178 |
| 0.060                       | -0.6049 | 0.060                    | -0.5162 | 0.060                      | -0.4088 |
| 0.080                       | -0.6279 | 0.080                    | -0.5485 | 0.080                      | -0.4409 |
| 0.100                       | -0.6456 | 0.100                    | -0.5553 | 0.100                      | -0.4602 |
| 0.125                       | -0.5798 | 0.125                    | -0.5638 | 0.125                      | -0.4739 |
| 0.150                       | -0.6705 | 0.150                    | -0.6032 | 0.150                      | -0.5054 |
| 0.175                       | -0.6593 | 0.175                    | -0.6418 | 0.175                      | -0.5290 |
| 0.200                       | -0.7174 | 0.200                    | -0.6598 | 0.200                      | -0.5369 |
| 0.250                       | -0.7215 | 0.250                    | -0.7075 | 0.250                      | -0.5790 |
| 0.300                       | -0.7019 | 0.300                    | -0.6948 | 0.300                      | -0.5827 |
| 0.350                       | -0.6468 | 0.350                    | -0.6581 | 0.350                      | -0.5872 |
| 0.400                       | -0.5882 | 0.400                    | -0.6383 | 0.400                      | -0.5615 |
| 0.450                       | -0.5257 | 0.450                    | -0.5760 | 0.450                      | -0.5410 |
| 0.500                       | -0.5022 | 0.500                    | -0.5546 | 0.500                      | -0.4946 |
| 0.550                       | -0.4344 | 0.550                    | -0.5395 | 0.550                      | -0.4734 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3834 | 0.005 | 0.3682 | 0.005 | 0.2736  |
| 0.010 | 0.1130 | 0.010 | 0.0415 | 0.010 | -0.1322 |

Fight 20 Test point 19

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 19900. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 333.4 Rnpu = 2904000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0148  | 0.000                    | 1.0556  | 0.000                      | 1.0451  |
| 0.005                       | 0.1721  | 0.005                    | 0.2667  | 0.005                      | 0.5598  |
| 0.010                       | -0.1172 | 0.010                    | -0.0123 | 0.010                      | 0.2634  |
| 0.020                       | -0.3828 | 0.020                    | -0.2871 | 0.020                      | -0.1011 |
| 0.040                       | -0.5718 | 0.040                    | -0.4599 | 0.040                      | -0.2859 |
| 0.060                       | -0.6183 | 0.060                    | -0.5081 | 0.060                      | -0.3852 |
| 0.080                       | -0.6431 | 0.080                    | -0.5448 | 0.080                      | -0.4173 |
| 0.100                       | -0.6624 | 0.100                    | -0.5590 | 0.100                      | -0.4415 |
| 0.125                       | -0.5949 | 0.125                    | -0.5745 | 0.125                      | -0.4541 |
| 0.150                       | -0.6941 | 0.150                    | -0.6135 | 0.150                      | -0.4885 |
| 0.175                       | -0.6779 | 0.175                    | -0.6518 | 0.175                      | -0.5127 |
| 0.200                       | -0.7377 | 0.200                    | -0.6735 | 0.200                      | -0.5253 |
| 0.250                       | -0.7388 | 0.250                    | -0.7225 | 0.250                      | -0.5729 |
| 0.300                       | -0.7207 | 0.300                    | -0.7138 | 0.300                      | -0.5821 |
| 0.350                       | -0.6532 | 0.350                    | -0.6741 | 0.350                      | -0.5900 |
| 0.400                       | -0.5905 | 0.400                    | -0.6518 | 0.400                      | -0.5715 |
| 0.450                       | -0.5242 | 0.450                    | -0.5652 | 0.450                      | -0.5553 |
| 0.500                       | -0.4986 | 0.500                    | -0.5543 | 0.500                      | -0.4787 |
| 0.550                       | -0.4257 | 0.550                    | -0.5343 | 0.550                      | -0.4620 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4355 | 0.005 | 0.4034 | 0.005 | 0.2905  |
| 0.010 | 0.1613 | 0.010 | 0.0599 | 0.010 | -0.1339 |

Fight 20 Test point 20

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 19700. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 337.8 Rnpu = 2937000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9621  | 0.000                    | 1.0004  | 0.000                      | 0.9830  |
| 0.005                       | 0.2420  | 0.005                    | 0.3061  | 0.005                      | 0.5674  |
| 0.010                       | -0.0302 | 0.010                    | 0.0430  | 0.010                      | 0.2903  |
| 0.020                       | -0.2858 | 0.020                    | -0.2219 | 0.020                      | -0.0597 |
| 0.040                       | -0.4753 | 0.040                    | -0.3916 | 0.040                      | -0.2478 |
| 0.060                       | -0.5320 | 0.060                    | -0.4433 | 0.060                      | -0.3395 |
| 0.080                       | -0.5636 | 0.080                    | -0.4842 | 0.080                      | -0.3742 |
| 0.100                       | -0.5843 | 0.100                    | -0.5066 | 0.100                      | -0.4012 |
| 0.125                       | -0.5316 | 0.125                    | -0.5231 | 0.125                      | -0.4230 |
| 0.150                       | -0.6168 | 0.150                    | -0.5561 | 0.150                      | -0.4596 |
| 0.175                       | -0.6144 | 0.175                    | -0.5907 | 0.175                      | -0.4866 |
| 0.200                       | -0.6691 | 0.200                    | -0.6132 | 0.200                      | -0.4955 |
| 0.250                       | -0.6784 | 0.250                    | -0.6592 | 0.250                      | -0.5379 |
| 0.300                       | -0.6693 | 0.300                    | -0.6582 | 0.300                      | -0.5442 |
| 0.350                       | -0.6181 | 0.350                    | -0.6280 | 0.350                      | -0.5571 |
| 0.400                       | -0.5639 | 0.400                    | -0.6160 | 0.400                      | -0.5412 |
| 0.450                       | -0.5066 | 0.450                    | -0.5535 | 0.450                      | -0.5215 |
| 0.500                       | -0.4869 | 0.500                    | -0.5351 | 0.500                      | -0.4767 |
| 0.550                       | -0.4236 | 0.550                    | -0.5255 | 0.550                      | -0.4589 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3042 | 0.005 | 0.2919  | 0.005 | 0.1860  |
| 0.010 | 0.0244 | 0.010 | -0.0525 | 0.010 | -0.2377 |

Flight 20. Test point 21

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 20100. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 330.4 Rnpu = 2889000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9472  | 0.000                    | 0.9841  | 0.000                      | 0.9868  |
| 0.005                       | -0.0276 | 0.005                    | 0.0459  | 0.005                      | 0.3684  |
| 0.010                       | -0.3157 | 0.010                    | -0.2385 | 0.010                      | 0.0511  |
| 0.020                       | -0.5729 | 0.020                    | -0.4979 | 0.020                      | -0.3216 |
| 0.040                       | -0.7383 | 0.040                    | -0.6447 | 0.040                      | -0.4780 |
| 0.060                       | -0.7612 | 0.060                    | -0.6723 | 0.060                      | -0.5543 |
| 0.080                       | -0.7710 | 0.080                    | -0.6930 | 0.080                      | -0.5657 |
| 0.100                       | -0.7855 | 0.100                    | -0.6944 | 0.100                      | -0.5783 |
| 0.125                       | -0.6757 | 0.125                    | -0.6934 | 0.125                      | -0.5825 |
| 0.150                       | -0.7796 | 0.150                    | -0.7186 | 0.150                      | -0.6048 |
| 0.175                       | -0.7547 | 0.175                    | -0.7478 | 0.175                      | -0.6175 |
| 0.200                       | -0.8099 | 0.200                    | -0.7641 | 0.200                      | -0.6211 |
| 0.250                       | -0.8026 | 0.250                    | -0.8002 | 0.250                      | -0.6545 |
| 0.300                       | -0.7692 | 0.300                    | -0.7821 | 0.300                      | -0.6564 |
| 0.350                       | -0.6927 | 0.350                    | -0.7105 | 0.350                      | -0.6463 |
| 0.400                       | -0.6220 | 0.400                    | -0.6760 | 0.400                      | -0.6059 |
| 0.450                       | -0.5537 | 0.450                    | -0.6055 | 0.450                      | -0.5687 |
| 0.500                       | -0.5268 | 0.500                    | -0.5828 | 0.500                      | -0.5206 |
| 0.550                       | -0.4489 | 0.550                    | -0.5626 | 0.550                      | -0.4946 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5228 | 0.005 | 0.5142 | 0.005 | 0.4296 |
| 0.010 | 0.2691 | 0.010 | 0.2120 | 0.010 | 0.0580 |

Fight 20 Test point 22

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 335.6 Rnpu = 2919000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8766  | 0.000                    | 0.9103  | 0.000                      | 0.9067  |
| 0.005                       | 0.0513  | 0.005                    | 0.1049  | 0.005                      | 0.3867  |
| 0.010                       | -0.2075 | 0.010                    | -0.1515 | 0.010                      | 0.1010  |
| 0.020                       | -0.4388 | 0.020                    | -0.3857 | 0.020                      | -0.2298 |
| 0.040                       | -0.5918 | 0.040                    | -0.5206 | 0.040                      | -0.3822 |
| 0.060                       | -0.6188 | 0.060                    | -0.5482 | 0.060                      | -0.4508 |
| 0.080                       | -0.6308 | 0.080                    | -0.5675 | 0.080                      | -0.4658 |
| 0.100                       | -0.6375 | 0.100                    | -0.5759 | 0.100                      | -0.4798 |
| 0.125                       | -0.5655 | 0.125                    | -0.5783 | 0.125                      | -0.4842 |
| 0.150                       | -0.6477 | 0.150                    | -0.6014 | 0.150                      | -0.5041 |
| 0.175                       | -0.6328 | 0.175                    | -0.6221 | 0.175                      | -0.5236 |
| 0.200                       | -0.6782 | 0.200                    | -0.6359 | 0.200                      | -0.5208 |
| 0.250                       | -0.6789 | 0.250                    | -0.6707 | 0.250                      | -0.5562 |
| 0.300                       | -0.6655 | 0.300                    | -0.6529 | 0.300                      | -0.5500 |
| 0.350                       | -0.6083 | 0.350                    | -0.6178 | 0.350                      | -0.5576 |
| 0.400                       | -0.5558 | 0.400                    | -0.6034 | 0.400                      | -0.5352 |
| 0.450                       | -0.4981 | 0.450                    | -0.5405 | 0.450                      | -0.5091 |
| 0.500                       | -0.4789 | 0.500                    | -0.5221 | 0.500                      | -0.4732 |
| 0.550                       | -0.4167 | 0.550                    | -0.5104 | 0.550                      | -0.4613 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.3953 | 0.005 | 0.3951 | 0.005 | 0.3120  |
| 0.010         | 0.1503 | 0.010 | 0.1063 | 0.010 | -0.0468 |



Fight 20 Test point 23

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 336.3 Rnpu = 2918000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8729  | 0.000                    | 0.9089  | 0.000                      | 0.9037  |
| 0.005                       | 0.0313  | 0.005                    | 0.0879  | 0.005                      | 0.3748  |
| 0.010                       | -0.2257 | 0.010                    | -0.1661 | 0.010                      | 0.0854  |
| 0.020                       | -0.4594 | 0.020                    | -0.4046 | 0.020                      | -0.2512 |
| 0.040                       | -0.6075 | 0.040                    | -0.5367 | 0.040                      | -0.3984 |
| 0.060                       | -0.6350 | 0.060                    | -0.5606 | 0.060                      | -0.4669 |
| 0.080                       | -0.6434 | 0.080                    | -0.5820 | 0.080                      | -0.4802 |
| 0.100                       | -0.6491 | 0.100                    | -0.5859 | 0.100                      | -0.4896 |
| 0.125                       | -0.5727 | 0.125                    | -0.5797 | 0.125                      | -0.4974 |
| 0.150                       | -0.6547 | 0.150                    | -0.6078 | 0.150                      | -0.5141 |
| 0.175                       | -0.6390 | 0.175                    | -0.6356 | 0.175                      | -0.5298 |
| 0.200                       | -0.6872 | 0.200                    | -0.6429 | 0.200                      | -0.5290 |
| 0.250                       | -0.6874 | 0.250                    | -0.6803 | 0.250                      | -0.5631 |
| 0.300                       | -0.6682 | 0.300                    | -0.6625 | 0.300                      | -0.5559 |
| 0.350                       | -0.6134 | 0.350                    | -0.6245 | 0.350                      | -0.5612 |
| 0.400                       | -0.5594 | 0.400                    | -0.6079 | 0.400                      | -0.5379 |
| 0.450                       | -0.5003 | 0.450                    | -0.5475 | 0.450                      | -0.5102 |
| 0.500                       | -0.4781 | 0.500                    | -0.5260 | 0.500                      | -0.4698 |
| 0.550                       | -0.4181 | 0.550                    | -0.5129 | 0.550                      | -0.4600 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4092 | 0.005 | 0.4112 | 0.005 | 0.3304  |
| 0.010 | 0.1705 | 0.010 | 0.1194 | 0.010 | -0.0265 |

Fight 20 Test point 24

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 19900. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 337.3 Rnpu = 2926000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8618  | 0.000                    | 0.8968  | 0.000                      | 0.8982  |
| 0.005                       | -0.0579 | 0.005                    | 0.0008  | 0.005                      | 0.3029  |
| 0.010                       | -0.3175 | 0.010                    | -0.2614 | 0.010                      | 0.0058  |
| 0.020                       | -0.5514 | 0.020                    | -0.4945 | 0.020                      | -0.3354 |
| 0.040                       | -0.6924 | 0.040                    | -0.6216 | 0.040                      | -0.4712 |
| 0.060                       | -0.7024 | 0.060                    | -0.6368 | 0.060                      | -0.5342 |
| 0.080                       | -0.7053 | 0.080                    | -0.6477 | 0.080                      | -0.5414 |
| 0.100                       | -0.7090 | 0.100                    | -0.6418 | 0.100                      | -0.5439 |
| 0.125                       | -0.6141 | 0.125                    | -0.6266 | 0.125                      | -0.5430 |
| 0.150                       | -0.7032 | 0.150                    | -0.6508 | 0.150                      | -0.5560 |
| 0.175                       | -0.6785 | 0.175                    | -0.6756 | 0.175                      | -0.5681 |
| 0.200                       | -0.7223 | 0.200                    | -0.6858 | 0.200                      | -0.5649 |
| 0.250                       | -0.7227 | 0.250                    | -0.7193 | 0.250                      | -0.5958 |
| 0.300                       | -0.6973 | 0.300                    | -0.6935 | 0.300                      | -0.5869 |
| 0.350                       | -0.6371 | 0.350                    | -0.6495 | 0.350                      | -0.5837 |
| 0.400                       | -0.5766 | 0.400                    | -0.6232 | 0.400                      | -0.5557 |
| 0.450                       | -0.5135 | 0.450                    | -0.5604 | 0.450                      | -0.5245 |
| 0.500                       | -0.4891 | 0.500                    | -0.5394 | 0.500                      | -0.4828 |
| 0.550                       | -0.4247 | 0.550                    | -0.5228 | 0.550                      | -0.4701 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.4736 | 0.005 | 0.4748 | 0.005 | 0.3991 |
| 0.010         | 0.2391 | 0.010 | 0.1971 | 0.010 | 0.0629 |

Fight 20 Test point 25

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 334.7 R<sub>pu</sub> = 2913000.

Upper surface

| BL 200.8<br>Inboard station |                | BL 260<br>Middle station |                | BL 320<br>Outboard station |                |
|-----------------------------|----------------|--------------------------|----------------|----------------------------|----------------|
| x/c                         | C <sub>p</sub> | x/c                      | C <sub>p</sub> | x/c                        | C <sub>p</sub> |
| 0.000                       | 0.7853         | 0.000                    | 0.8180         | 0.000                      | 0.8210         |
| 0.005                       | -0.0398        | 0.005                    | 0.0013         | 0.005                      | 0.2825         |
| 0.010                       | -0.2779        | 0.010                    | -0.2286        | 0.010                      | 0.0067         |
| 0.020                       | -0.4837        | 0.020                    | -0.4408        | 0.020                      | -0.2966        |
| 0.040                       | -0.5979        | 0.040                    | -0.5473        | 0.040                      | -0.4160        |
| 0.060                       | -0.6049        | 0.060                    | -0.5545        | 0.060                      | -0.4709        |
| 0.080                       | -0.6072        | 0.080                    | -0.5539        | 0.080                      | -0.4751        |
| 0.100                       | -0.6091        | 0.100                    | -0.5513        | 0.100                      | -0.4785        |
| 0.125                       | -0.5464        | 0.125                    | -0.5511        | 0.125                      | -0.4671        |
| 0.150                       | -0.6134        | 0.150                    | -0.5724        | 0.150                      | -0.4852        |
| 0.175                       | -0.5949        | 0.175                    | -0.5890        | 0.175                      | -0.5019        |
| 0.200                       | -0.6303        | 0.200                    | -0.5972        | 0.200                      | -0.4961        |
| 0.250                       | -0.6291        | 0.250                    | -0.6203        | 0.250                      | -0.5260        |
| 0.300                       | -0.6108        | 0.300                    | -0.6024        | 0.300                      | -0.5120        |
| 0.350                       | -0.5599        | 0.350                    | -0.5652        | 0.350                      | -0.5146        |
| 0.400                       | -0.5179        | 0.400                    | -0.5507        | 0.400                      | -0.4939        |
| 0.450                       | -0.4630        | 0.450                    | -0.5030        | 0.450                      | -0.4679        |
| 0.500                       | -0.4470        | 0.500                    | -0.4835        | 0.500                      | -0.4372        |
| 0.550                       | -0.3904        | 0.550                    | -0.4723        | 0.550                      | -0.4339        |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3931 | 0.005 | 0.4079 | 0.005 | 0.3357 |
| 0.010 | 0.1737 | 0.010 | 0.1483 | 0.010 | 0.0199 |

Fight 20 Test point 26

Sweep, deg = 30.1 Mach = 0.70 hp, ft = 19800. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 337.4 Rnpu = 2931000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7785  | 0.000                    | 0.8101  | 0.000                      | 0.8146  |
| 0.005                       | -0.0806 | 0.005                    | -0.0372 | 0.005                      | 0.2507  |
| 0.010                       | -0.3177 | 0.010                    | -0.2724 | 0.010                      | -0.0266 |
| 0.020                       | -0.5219 | 0.020                    | -0.4759 | 0.020                      | -0.3301 |
| 0.040                       | -0.6342 | 0.040                    | -0.5803 | 0.040                      | -0.4472 |
| 0.060                       | -0.6400 | 0.060                    | -0.5834 | 0.060                      | -0.4995 |
| 0.080                       | -0.6333 | 0.080                    | -0.5844 | 0.080                      | -0.4969 |
| 0.100                       | -0.6298 | 0.100                    | -0.5766 | 0.100                      | -0.5024 |
| 0.125                       | -0.5632 | 0.125                    | -0.5743 | 0.125                      | -0.4860 |
| 0.150                       | -0.6302 | 0.150                    | -0.5937 | 0.150                      | -0.5024 |
| 0.175                       | -0.6116 | 0.175                    | -0.6082 | 0.175                      | -0.5231 |
| 0.200                       | -0.6476 | 0.200                    | -0.6126 | 0.200                      | -0.5126 |
| 0.250                       | -0.6432 | 0.250                    | -0.6382 | 0.250                      | -0.5383 |
| 0.300                       | -0.6231 | 0.300                    | -0.6169 | 0.300                      | -0.5256 |
| 0.350                       | -0.5713 | 0.350                    | -0.5792 | 0.350                      | -0.5244 |
| 0.400                       | -0.5227 | 0.400                    | -0.5641 | 0.400                      | -0.5034 |
| 0.450                       | -0.4706 | 0.450                    | -0.5088 | 0.450                      | -0.4791 |
| 0.500                       | -0.4526 | 0.500                    | -0.4891 | 0.500                      | -0.4413 |
| 0.550                       | -0.3953 | 0.550                    | -0.4794 | 0.550                      | -0.4396 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4192 | 0.005 | 0.4291 | 0.005 | 0.3580 |
| 0.010 | 0.2053 | 0.010 | 0.1752 | 0.010 | 0.0502 |

Fight 20 Test point 27

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 333.6 Rnpu = 2906000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.6861  | 0.000                    | 0.7109  | 0.000                      | 0.7218  |
| 0.005                       | -0.1478 | 0.005                    | -0.1195 | 0.005                      | 0.1564  |
| 0.010                       | -0.3642 | 0.010                    | -0.3308 | 0.010                      | -0.1074 |
| 0.020                       | -0.5318 | 0.020                    | -0.5055 | 0.020                      | -0.3769 |
| 0.040                       | -0.5996 | 0.040                    | -0.5617 | 0.040                      | -0.4637 |
| 0.060                       | -0.6022 | 0.060                    | -0.5547 | 0.060                      | -0.4909 |
| 0.080                       | -0.6018 | 0.080                    | -0.5617 | 0.080                      | -0.4780 |
| 0.100                       | -0.5941 | 0.100                    | -0.5516 | 0.100                      | -0.4761 |
| 0.125                       | -0.5238 | 0.125                    | -0.5406 | 0.125                      | -0.4675 |
| 0.150                       | -0.5833 | 0.150                    | -0.5521 | 0.150                      | -0.4791 |
| 0.175                       | -0.5608 | 0.175                    | -0.5603 | 0.175                      | -0.4884 |
| 0.200                       | -0.5948 | 0.200                    | -0.5630 | 0.200                      | -0.4740 |
| 0.250                       | -0.5842 | 0.250                    | -0.5823 | 0.250                      | -0.4958 |
| 0.300                       | -0.5644 | 0.300                    | -0.5598 | 0.300                      | -0.4808 |
| 0.350                       | -0.5189 | 0.350                    | -0.5222 | 0.350                      | -0.4771 |
| 0.400                       | -0.4774 | 0.400                    | -0.5090 | 0.400                      | -0.4555 |
| 0.450                       | -0.4320 | 0.450                    | -0.4599 | 0.450                      | -0.4338 |
| 0.500                       | -0.4130 | 0.500                    | -0.4458 | 0.500                      | -0.4048 |
| 0.550                       | -0.3619 | 0.550                    | -0.4384 | 0.550                      | -0.4088 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3977 | 0.005 | 0.4212 | 0.005 | 0.3658 |
| 0.010 | 0.2090 | 0.010 | 0.1985 | 0.010 | 0.0959 |

Fight 20 Test point 28

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 19700. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 338.5 Rnpu = 2941000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7050  | 0.000                    | 0.7344  | 0.000                      | 0.7346  |
| 0.005                       | -0.0218 | 0.005                    | 0.0050  | 0.005                      | 0.2597  |
| 0.010                       | -0.2361 | 0.010                    | -0.1957 | 0.010                      | 0.0138  |
| 0.020                       | -0.4122 | 0.020                    | -0.3877 | 0.020                      | -0.2560 |
| 0.040                       | -0.5029 | 0.040                    | -0.4593 | 0.040                      | -0.3654 |
| 0.060                       | -0.5170 | 0.060                    | -0.4753 | 0.060                      | -0.3962 |
| 0.080                       | -0.5290 | 0.080                    | -0.4881 | 0.080                      | -0.4048 |
| 0.100                       | -0.5249 | 0.100                    | -0.4876 | 0.100                      | -0.4131 |
| 0.125                       | -0.4763 | 0.125                    | -0.4815 | 0.125                      | -0.4112 |
| 0.150                       | -0.5323 | 0.150                    | -0.4997 | 0.150                      | -0.4267 |
| 0.175                       | -0.5208 | 0.175                    | -0.5109 | 0.175                      | -0.4388 |
| 0.200                       | -0.5492 | 0.200                    | -0.5192 | 0.200                      | -0.4322 |
| 0.250                       | -0.5497 | 0.250                    | -0.5401 | 0.250                      | -0.4602 |
| 0.300                       | -0.5329 | 0.300                    | -0.5248 | 0.300                      | -0.4483 |
| 0.350                       | -0.4966 | 0.350                    | -0.4921 | 0.350                      | -0.4526 |
| 0.400                       | -0.4575 | 0.400                    | -0.4840 | 0.400                      | -0.4360 |
| 0.450                       | -0.4121 | 0.450                    | -0.4416 | 0.450                      | -0.4172 |
| 0.500                       | -0.3994 | 0.500                    | -0.4328 | 0.500                      | -0.3922 |
| 0.550                       | -0.3524 | 0.550                    | -0.4294 | 0.550                      | -0.4008 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.3197 | 0.005 | 0.3386 | 0.005 | 0.2692  |
| 0.010         | 0.1153 | 0.010 | 0.0981 | 0.010 | -0.0186 |

Fight 20 Test point 29

Sweep, deg = 34.9 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 384.0 Rnpu = 3141000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7174  | 0.000                    | 0.7451  | 0.000                      | 0.7439  |
| 0.005                       | 0.0288  | 0.005                    | 0.0577  | 0.005                      | 0.2918  |
| 0.010                       | -0.1849 | 0.010                    | -0.1521 | 0.010                      | 0.0485  |
| 0.020                       | -0.3707 | 0.020                    | -0.3547 | 0.020                      | -0.2322 |
| 0.040                       | -0.4942 | 0.040                    | -0.4453 | 0.040                      | -0.3552 |
| 0.060                       | -0.5182 | 0.060                    | -0.4760 | 0.060                      | -0.3987 |
| 0.080                       | -0.5359 | 0.080                    | -0.4998 | 0.080                      | -0.4176 |
| 0.100                       | -0.5404 | 0.100                    | -0.5028 | 0.100                      | -0.4292 |
| 0.125                       | -0.4933 | 0.125                    | -0.5022 | 0.125                      | -0.4332 |
| 0.150                       | -0.5593 | 0.150                    | -0.5253 | 0.150                      | -0.4524 |
| 0.175                       | -0.5479 | 0.175                    | -0.5464 | 0.175                      | -0.4730 |
| 0.200                       | -0.5872 | 0.200                    | -0.5580 | 0.200                      | -0.4667 |
| 0.250                       | -0.5909 | 0.250                    | -0.5861 | 0.250                      | -0.4983 |
| 0.300                       | -0.5820 | 0.300                    | -0.5743 | 0.300                      | -0.4898 |
| 0.350                       | -0.5391 | 0.350                    | -0.5372 | 0.350                      | -0.4932 |
| 0.400                       | -0.4930 | 0.400                    | -0.5232 | 0.400                      | -0.4703 |
| 0.450                       | -0.4437 | 0.450                    | -0.4761 | 0.450                      | -0.4478 |
| 0.500                       | -0.4252 | 0.500                    | -0.4579 | 0.500                      | -0.4133 |
| 0.550                       | -0.3712 | 0.550                    | -0.4496 | 0.550                      | -0.4127 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3013 | 0.005 | 0.3181 | 0.005 | 0.2592  |
| 0.010 | 0.0979 | 0.010 | 0.0750 | 0.010 | -0.0371 |

Flight 20 Test point 30

Sweep, deg = 34.8 Mach = 0.75 hp, ft = 19600. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 390.1 Rnpu = 3183000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7180  | 0.000                    | 0.7500  | 0.000                      | 0.7421  |
| 0.005                       | 0.1604  | 0.005                    | 0.1884  | 0.005                      | 0.3965  |
| 0.010                       | -0.0502 | 0.010                    | -0.0135 | 0.010                      | 0.1751  |
| 0.020                       | -0.2364 | 0.020                    | -0.2218 | 0.020                      | -0.0963 |
| 0.040                       | -0.3776 | 0.040                    | -0.3304 | 0.040                      | -0.2197 |
| 0.060                       | -0.4178 | 0.060                    | -0.3723 | 0.060                      | -0.2984 |
| 0.080                       | -0.4470 | 0.080                    | -0.4055 | 0.080                      | -0.3256 |
| 0.100                       | -0.4582 | 0.100                    | -0.4155 | 0.100                      | -0.3441 |
| 0.125                       | -0.4340 | 0.125                    | -0.4277 | 0.125                      | -0.3585 |
| 0.150                       | -0.4916 | 0.150                    | -0.4516 | 0.150                      | -0.3787 |
| 0.175                       | -0.4860 | 0.175                    | -0.4781 | 0.175                      | -0.4027 |
| 0.200                       | -0.5248 | 0.200                    | -0.4907 | 0.200                      | -0.4046 |
| 0.250                       | -0.5348 | 0.250                    | -0.5260 | 0.250                      | -0.4429 |
| 0.300                       | -0.5334 | 0.300                    | -0.5204 | 0.300                      | -0.4450 |
| 0.350                       | -0.4970 | 0.350                    | -0.4956 | 0.350                      | -0.4501 |
| 0.400                       | -0.4624 | 0.400                    | -0.4848 | 0.400                      | -0.4356 |
| 0.450                       | -0.4177 | 0.450                    | -0.4459 | 0.450                      | -0.4173 |
| 0.500                       | -0.4061 | 0.500                    | -0.4303 | 0.500                      | -0.3918 |
| 0.550                       | -0.3590 | 0.550                    | -0.4326 | 0.550                      | -0.3976 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.1878  | 0.005 | 0.2037  | 0.005 | 0.1280  |
| 0.010 | -0.0294 | 0.010 | -0.0604 | 0.010 | -0.1941 |



Flight 20 Test point 31

Sweep, deg = 34.9 Mach = 0.75 hp, ft = 19900. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 387.5 Rnpu = 3161000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7088  | 0.000                    | 0.7332  | 0.000                      | 0.7363  |
| 0.005                       | -0.0574 | 0.005                    | -0.0425 | 0.005                      | 0.2088  |
| 0.010                       | -0.2792 | 0.010                    | -0.2520 | 0.010                      | -0.0452 |
| 0.020                       | -0.4728 | 0.020                    | -0.4593 | 0.020                      | -0.3266 |
| 0.040                       | -0.5863 | 0.040                    | -0.5506 | 0.040                      | -0.4380 |
| 0.060                       | -0.5949 | 0.060                    | -0.5677 | 0.060                      | -0.4886 |
| 0.080                       | -0.6100 | 0.080                    | -0.5839 | 0.080                      | -0.4999 |
| 0.100                       | -0.6010 | 0.100                    | -0.5756 | 0.100                      | -0.5057 |
| 0.125                       | -0.5468 | 0.125                    | -0.5659 | 0.125                      | -0.5024 |
| 0.150                       | -0.6202 | 0.150                    | -0.5819 | 0.150                      | -0.5085 |
| 0.175                       | -0.5931 | 0.175                    | -0.6027 | 0.175                      | -0.5230 |
| 0.200                       | -0.6318 | 0.200                    | -0.6150 | 0.200                      | -0.5169 |
| 0.250                       | -0.6333 | 0.250                    | -0.6392 | 0.250                      | -0.5488 |
| 0.300                       | -0.6212 | 0.300                    | -0.6144 | 0.300                      | -0.5331 |
| 0.350                       | -0.5701 | 0.350                    | -0.5676 | 0.350                      | -0.5259 |
| 0.400                       | -0.5194 | 0.400                    | -0.5495 | 0.400                      | -0.4979 |
| 0.450                       | -0.4620 | 0.450                    | -0.4972 | 0.450                      | -0.4635 |
| 0.500                       | -0.4413 | 0.500                    | -0.4743 | 0.500                      | -0.4244 |
| 0.550                       | -0.3847 | 0.550                    | -0.4648 | 0.550                      | -0.4243 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3769 | 0.005 | 0.3951 | 0.005 | 0.3443 |
| 0.010 | 0.1812 | 0.010 | 0.1663 | 0.010 | 0.0746 |

Fight 20 Test point 32

Sweep, deg = 30.0 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 384.8 Rnpu = 3146000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8120  | 0.000                    | 0.8466  | 0.000                      | 0.8378  |
| 0.005                       | 0.1531  | 0.005                    | 0.1894  | 0.005                      | 0.4219  |
| 0.010                       | -0.0841 | 0.010                    | -0.0397 | 0.010                      | 0.1723  |
| 0.020                       | -0.3045 | 0.020                    | -0.2729 | 0.020                      | -0.1367 |
| 0.040                       | -0.4532 | 0.040                    | -0.4136 | 0.040                      | -0.2941 |
| 0.060                       | -0.4987 | 0.060                    | -0.4432 | 0.060                      | -0.3758 |
| 0.080                       | -0.5339 | 0.080                    | -0.4836 | 0.080                      | -0.3913 |
| 0.100                       | -0.5471 | 0.100                    | -0.5001 | 0.100                      | -0.4124 |
| 0.125                       | -0.5103 | 0.125                    | -0.5085 | 0.125                      | -0.4301 |
| 0.150                       | -0.5875 | 0.150                    | -0.5420 | 0.150                      | -0.4600 |
| 0.175                       | -0.5798 | 0.175                    | -0.5743 | 0.175                      | -0.4867 |
| 0.200                       | -0.6242 | 0.200                    | -0.5923 | 0.200                      | -0.4870 |
| 0.250                       | -0.6515 | 0.250                    | -0.6431 | 0.250                      | -0.5357 |
| 0.300                       | -0.6358 | 0.300                    | -0.6331 | 0.300                      | -0.5341 |
| 0.350                       | -0.5910 | 0.350                    | -0.5972 | 0.350                      | -0.5398 |
| 0.400                       | -0.5389 | 0.400                    | -0.5762 | 0.400                      | -0.5158 |
| 0.450                       | -0.4808 | 0.450                    | -0.5239 | 0.450                      | -0.4879 |
| 0.500                       | -0.4598 | 0.500                    | -0.4997 | 0.500                      | -0.4443 |
| 0.550                       | -0.4009 | 0.550                    | -0.4907 | 0.550                      | -0.4380 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.2806 | 0.005 | 0.2890 | 0.005 | 0.2155  |
| 0.010 | 0.0435 | 0.010 | 0.0018 | 0.010 | -0.1337 |

Fight 20 Test point 33

Sweep, deg = 29.7 Mach = 0.75 hp, ft = 19800. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 382.8 Rnpu = 3142000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8102  | 0.000                    | 0.8444  | 0.000                      | 0.8339  |
| 0.005                       | 0.2203  | 0.005                    | 0.2579  | 0.005                      | 0.4762  |
| 0.010                       | -0.0133 | 0.010                    | 0.0351  | 0.010                      | 0.2356  |
| 0.020                       | -0.2358 | 0.020                    | -0.1949 | 0.020                      | -0.0627 |
| 0.040                       | -0.3881 | 0.040                    | -0.3421 | 0.040                      | -0.2266 |
| 0.060                       | -0.4412 | 0.060                    | -0.3855 | 0.060                      | -0.3045 |
| 0.080                       | -0.4805 | 0.080                    | -0.4280 | 0.080                      | -0.3343 |
| 0.100                       | -0.4974 | 0.100                    | -0.4444 | 0.100                      | -0.3613 |
| 0.125                       | -0.4693 | 0.125                    | -0.4596 | 0.125                      | -0.3819 |
| 0.150                       | -0.5404 | 0.150                    | -0.4952 | 0.150                      | -0.4125 |
| 0.175                       | -0.5371 | 0.175                    | -0.5286 | 0.175                      | -0.4415 |
| 0.200                       | -0.5837 | 0.200                    | -0.5485 | 0.200                      | -0.4455 |
| 0.250                       | -0.6028 | 0.250                    | -0.5919 | 0.250                      | -0.4928 |
| 0.300                       | -0.5994 | 0.300                    | -0.5887 | 0.300                      | -0.4983 |
| 0.350                       | -0.5591 | 0.350                    | -0.5581 | 0.350                      | -0.5065 |
| 0.400                       | -0.5153 | 0.400                    | -0.5485 | 0.400                      | -0.4901 |
| 0.450                       | -0.4634 | 0.450                    | -0.5009 | 0.450                      | -0.4671 |
| 0.500                       | -0.4447 | 0.500                    | -0.4835 | 0.500                      | -0.4291 |
| 0.550                       | -0.3926 | 0.550                    | -0.4779 | 0.550                      | -0.4268 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2149  | 0.005 | 0.2179  | 0.005 | 0.1369  |
| 0.010 | -0.0267 | 0.010 | -0.0804 | 0.010 | -0.2316 |

Fight 20 Test point 34

Sweep, deg = 29.7 Mach = 0.75 hp, ft = 20100. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 380.2 R<sub>npu</sub> = 3117000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7974  | 0.000                    | 0.8275  | 0.000                      | 0.8255  |
| 0.005                       | 0.0076  | 0.005                    | 0.0390  | 0.005                      | 0.2974  |
| 0.010                       | -0.2344 | 0.010                    | -0.1980 | 0.010                      | 0.0262  |
| 0.020                       | -0.4547 | 0.020                    | -0.4227 | 0.020                      | -0.2951 |
| 0.040                       | -0.5995 | 0.040                    | -0.5570 | 0.040                      | -0.4359 |
| 0.060                       | -0.6116 | 0.060                    | -0.5770 | 0.060                      | -0.5004 |
| 0.080                       | -0.6312 | 0.080                    | -0.5986 | 0.080                      | -0.5147 |
| 0.100                       | -0.6765 | 0.100                    | -0.6031 | 0.100                      | -0.5237 |
| 0.125                       | -0.5740 | 0.125                    | -0.5999 | 0.125                      | -0.5225 |
| 0.150                       | -0.6436 | 0.150                    | -0.6258 | 0.150                      | -0.5400 |
| 0.175                       | -0.6680 | 0.175                    | -0.6549 | 0.175                      | -0.5654 |
| 0.200                       | -0.6817 | 0.200                    | -0.6814 | 0.200                      | -0.5610 |
| 0.250                       | -0.7152 | 0.250                    | -0.7090 | 0.250                      | -0.5990 |
| 0.300                       | -0.6741 | 0.300                    | -0.6834 | 0.300                      | -0.5825 |
| 0.350                       | -0.6342 | 0.350                    | -0.6382 | 0.350                      | -0.5822 |
| 0.400                       | -0.5712 | 0.400                    | -0.6108 | 0.400                      | -0.5505 |
| 0.450                       | -0.5067 | 0.450                    | -0.5513 | 0.450                      | -0.5142 |
| 0.500                       | -0.4779 | 0.500                    | -0.5192 | 0.500                      | -0.4640 |
| 0.550                       | -0.4159 | 0.550                    | -0.5027 | 0.550                      | -0.4503 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3914 | 0.005 | 0.4046 | 0.005 | 0.3403 |
| 0.010 | 0.1702 | 0.010 | 0.1416 | 0.010 | 0.0264 |

Flight 20 Test point 35

Sweep, deg = 24.9 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 381.8 Rnpu = 3130000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8994  | 0.000                    | 0.9385  | 0.000                      | 0.9226  |
| 0.005                       | 0.2961  | 0.005                    | 0.3448  | 0.005                      | 0.5665  |
| 0.010                       | 0.0412  | 0.010                    | 0.1005  | 0.010                      | 0.3117  |
| 0.020                       | -0.2036 | 0.020                    | -0.1543 | 0.020                      | -0.0159 |
| 0.040                       | -0.3975 | 0.040                    | -0.3314 | 0.040                      | -0.2042 |
| 0.060                       | -0.4614 | 0.060                    | -0.3969 | 0.060                      | -0.3071 |
| 0.080                       | -0.5030 | 0.080                    | -0.4401 | 0.080                      | -0.3481 |
| 0.100                       | -0.5270 | 0.100                    | -0.4666 | 0.100                      | -0.3799 |
| 0.125                       | -0.5012 | 0.125                    | -0.4834 | 0.125                      | -0.4047 |
| 0.150                       | -0.5873 | 0.150                    | -0.5225 | 0.150                      | -0.4295 |
| 0.175                       | -0.5881 | 0.175                    | -0.5692 | 0.175                      | -0.4717 |
| 0.200                       | -0.6459 | 0.200                    | -0.5982 | 0.200                      | -0.4780 |
| 0.250                       | -0.6772 | 0.250                    | -0.6758 | 0.250                      | -0.5421 |
| 0.300                       | -0.6653 | 0.300                    | -0.6801 | 0.300                      | -0.5553 |
| 0.350                       | -0.6314 | 0.350                    | -0.6412 | 0.350                      | -0.5721 |
| 0.400                       | -0.5727 | 0.400                    | -0.6186 | 0.400                      | -0.5492 |
| 0.450                       | -0.5082 | 0.450                    | -0.5593 | 0.450                      | -0.5249 |
| 0.500                       | -0.4855 | 0.500                    | -0.5363 | 0.500                      | -0.4769 |
| 0.550                       | -0.4223 | 0.550                    | -0.5223 | 0.550                      | -0.4555 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2305  | 0.005 | 0.2258  | 0.005 | 0.1428  |
| 0.010 | -0.0367 | 0.010 | -0.1081 | 0.010 | -0.2699 |

Fight 20 Test point 36

Sweep, deg = 24.5 Mach = 0.75 hp, ft = 20100. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 384.6 Rrho = 3143000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8983  | 0.000                    | 0.9321  | 0.000                      | 0.9235  |
| 0.005                       | 0.0478  | 0.005                    | 0.0941  | 0.005                      | 0.3634  |
| 0.010                       | -0.2162 | 0.010                    | -0.1692 | 0.010                      | 0.0678  |
| 0.020                       | -0.4642 | 0.020                    | -0.4181 | 0.020                      | -0.2875 |
| 0.040                       | -0.6517 | 0.040                    | -0.5821 | 0.040                      | -0.4495 |
| 0.060                       | -0.6966 | 0.060                    | -0.6216 | 0.060                      | -0.5371 |
| 0.080                       | -0.7062 | 0.080                    | -0.6555 | 0.080                      | -0.5580 |
| 0.100                       | -0.6778 | 0.100                    | -0.6538 | 0.100                      | -0.5720 |
| 0.125                       | -0.7178 | 0.125                    | -0.6667 | 0.125                      | -0.5905 |
| 0.150                       | -0.7494 | 0.150                    | -0.6937 | 0.150                      | -0.6397 |
| 0.175                       | -0.7226 | 0.175                    | -0.7324 | 0.175                      | -0.6351 |
| 0.200                       | -0.7851 | 0.200                    | -0.7446 | 0.200                      | -0.6395 |
| 0.250                       | -0.8490 | 0.250                    | -0.8616 | 0.250                      | -0.7073 |
| 0.300                       | -0.8058 | 0.300                    | -0.9049 | 0.300                      | -0.7446 |
| 0.350                       | -0.8129 | 0.350                    | -0.9082 | 0.350                      | -0.6617 |
| 0.400                       | -0.6230 | 0.400                    | -0.6024 | 0.400                      | -0.6191 |
| 0.450                       | -0.5455 | 0.450                    | -0.5830 | 0.450                      | -0.5812 |
| 0.500                       | -0.5142 | 0.500                    | -0.5631 | 0.500                      | -0.5139 |
| 0.550                       | -0.4459 | 0.550                    | -0.5461 | 0.550                      | -0.4807 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4551 | 0.005 | 0.4615 | 0.005 | 0.3968 |
| 0.010 | 0.2137 | 0.010 | 0.1740 | 0.010 | 0.0498 |

Flight 20 Test point 37

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 383.8 Rnpu = 3140000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9705  | 0.000                    | 1.0055  | 0.000                      | 0.9925  |
| 0.005                       | 0.3052  | 0.005                    | 0.3627  | 0.005                      | 0.5970  |
| 0.010                       | 0.0333  | 0.010                    | 0.1013  | 0.010                      | 0.3261  |
| 0.020                       | -0.2314 | 0.020                    | -0.1700 | 0.020                      | -0.0247 |
| 0.040                       | -0.4416 | 0.040                    | -0.3606 | 0.040                      | -0.2250 |
| 0.060                       | -0.5126 | 0.060                    | -0.4295 | 0.060                      | -0.3422 |
| 0.080                       | -0.5550 | 0.080                    | -0.4789 | 0.080                      | -0.3822 |
| 0.100                       | -0.6028 | 0.100                    | -0.5073 | 0.100                      | -0.4171 |
| 0.125                       | -0.5425 | 0.125                    | -0.5332 | 0.125                      | -0.4440 |
| 0.150                       | -0.6441 | 0.150                    | -0.5799 | 0.150                      | -0.4894 |
| 0.175                       | -0.6330 | 0.175                    | -0.6291 | 0.175                      | -0.5237 |
| 0.200                       | -0.7499 | 0.200                    | -0.6674 | 0.200                      | -0.5434 |
| 0.250                       | -0.8094 | 0.250                    | -0.7849 | 0.250                      | -0.6171 |
| 0.300                       | -0.7636 | 0.300                    | -0.7950 | 0.300                      | -0.6370 |
| 0.350                       | -0.7460 | 0.350                    | -0.7927 | 0.350                      | -0.6661 |
| 0.400                       | -0.6172 | 0.400                    | -0.6539 | 0.400                      | -0.6128 |
| 0.450                       | -0.5441 | 0.450                    | -0.5978 | 0.450                      | -0.5748 |
| 0.500                       | -0.5143 | 0.500                    | -0.5770 | 0.500                      | -0.5121 |
| 0.550                       | -0.4460 | 0.550                    | -0.5594 | 0.550                      | -0.4782 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2988 | 0.005 | 0.2867  | 0.005 | 0.2051  |
| 0.010 | 0.0143 | 0.010 | -0.0616 | 0.010 | -0.2208 |

Fight 20 Test point 38

Sweep, deg = 20.0 Mach = 0.76 hp, ft = 20100. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 387.8 Rnpu = 3154000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9749  | 0.000                    | 1.0116  | 0.000                      | 0.9981  |
| 0.005                       | 0.2646  | 0.005                    | 0.3263  | 0.005                      | 0.5673  |
| 0.010                       | -0.0081 | 0.010                    | 0.0594  | 0.010                      | 0.2853  |
| 0.020                       | -0.2711 | 0.020                    | -0.2129 | 0.020                      | -0.0665 |
| 0.040                       | -0.4817 | 0.040                    | -0.4011 | 0.040                      | -0.2659 |
| 0.060                       | -0.5487 | 0.060                    | -0.4650 | 0.060                      | -0.3808 |
| 0.080                       | -0.5873 | 0.080                    | -0.5179 | 0.080                      | -0.4213 |
| 0.100                       | -0.6216 | 0.100                    | -0.5409 | 0.100                      | -0.4502 |
| 0.125                       | -0.6316 | 0.125                    | -0.5633 | 0.125                      | -0.4791 |
| 0.150                       | -0.6665 | 0.150                    | -0.6052 | 0.150                      | -0.5213 |
| 0.175                       | -0.6903 | 0.175                    | -0.6585 | 0.175                      | -0.5561 |
| 0.200                       | -0.7500 | 0.200                    | -0.6874 | 0.200                      | -0.5771 |
| 0.250                       | -0.8351 | 0.250                    | -0.7962 | 0.250                      | -0.6473 |
| 0.300                       | -0.8885 | 0.300                    | -0.8453 | 0.300                      | -0.7180 |
| 0.350                       | -0.7751 | 0.350                    | -0.8828 | 0.350                      | -0.6974 |
| 0.400                       | -0.7144 | 0.400                    | -0.9031 | 0.400                      | -0.6489 |
| 0.450                       | -0.5437 | 0.450                    | -0.5497 | 0.450                      | -0.5864 |
| 0.500                       | -0.5182 | 0.500                    | -0.5634 | 0.500                      | -0.5247 |
| 0.550                       | -0.4514 | 0.550                    | -0.5581 | 0.550                      | -0.4811 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3466 | 0.005 | 0.3344  | 0.005 | 0.2562  |
| 0.010 | 0.0664 | 0.010 | -0.0041 | 0.010 | -0.1559 |



Flight 20 Test point 39

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 20100. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 382.3 Rrho = 3128000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9678  | 0.000                    | 1.0004  | 0.000                      | 0.9951  |
| 0.005                       | 0.1132  | 0.005                    | 0.1717  | 0.005                      | 0.4397  |
| 0.010                       | -0.1678 | 0.010                    | -0.1073 | 0.010                      | 0.1376  |
| 0.020                       | -0.4293 | 0.020                    | -0.3722 | 0.020                      | -0.2337 |
| 0.040                       | -0.6417 | 0.040                    | -0.5539 | 0.040                      | -0.4146 |
| 0.060                       | -0.6969 | 0.060                    | -0.6071 | 0.060                      | -0.5160 |
| 0.080                       | -0.7002 | 0.080                    | -0.6511 | 0.080                      | -0.5426 |
| 0.100                       | -0.7235 | 0.100                    | -0.6572 | 0.100                      | -0.5650 |
| 0.125                       | -0.7055 | 0.125                    | -0.6718 | 0.125                      | -0.5783 |
| 0.150                       | -0.8081 | 0.150                    | -0.7126 | 0.150                      | -0.6429 |
| 0.175                       | -0.7657 | 0.175                    | -0.7517 | 0.175                      | -0.6436 |
| 0.200                       | -0.8485 | 0.200                    | -0.7816 | 0.200                      | -0.6455 |
| 0.250                       | -0.9086 | 0.250                    | -0.8760 | 0.250                      | -0.7411 |
| 0.300                       | -0.9905 | 0.300                    | -0.9246 | 0.300                      | -0.7556 |
| 0.350                       | -0.9228 | 0.350                    | -0.9723 | 0.350                      | -0.8265 |
| 0.400                       | -0.7196 | 0.400                    | -1.0257 | 0.400                      | -0.7303 |
| 0.450                       | -0.5506 | 0.450                    | -0.5343 | 0.450                      | -0.5942 |
| 0.500                       | -0.5263 | 0.500                    | -0.5276 | 0.500                      | -0.5394 |
| 0.550                       | -0.4558 | 0.550                    | -0.5446 | 0.550                      | -0.4950 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4745 | 0.005 | 0.4684 | 0.005 | 0.4002 |
| 0.010 | 0.2170 | 0.010 | 0.1600 | 0.010 | 0.0215 |

Flight 20 Test point 40

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 435.2 Rrho = 3364000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9750  | 0.000                    | 1.0105  | 0.000                      | 0.9928  |
| 0.005                       | 0.4327  | 0.005                    | 0.4879  | 0.005                      | 0.6787  |
| 0.010                       | 0.1738  | 0.010                    | 0.2412  | 0.010                      | 0.4311  |
| 0.020                       | -0.0833 | 0.020                    | -0.0266 | 0.020                      | 0.0962  |
| 0.040                       | -0.3092 | 0.040                    | -0.2286 | 0.040                      | -0.1154 |
| 0.060                       | -0.3929 | 0.060                    | -0.3137 | 0.060                      | -0.2424 |
| 0.080                       | -0.4446 | 0.080                    | -0.3737 | 0.080                      | -0.2975 |
| 0.100                       | -0.4843 | 0.100                    | -0.4028 | 0.100                      | -0.3365 |
| 0.125                       | -0.5468 | 0.125                    | -0.4286 | 0.125                      | -0.3799 |
| 0.150                       | -0.5365 | 0.150                    | -0.4822 | 0.150                      | -0.4311 |
| 0.175                       | -0.5800 | 0.175                    | -0.5497 | 0.175                      | -0.4690 |
| 0.200                       | -0.6688 | 0.200                    | -0.5839 | 0.200                      | -0.4932 |
| 0.250                       | -0.7615 | 0.250                    | -0.7008 | 0.250                      | -0.5967 |
| 0.300                       | -0.8534 | 0.300                    | -0.7714 | 0.300                      | -0.6580 |
| 0.350                       | -0.8398 | 0.350                    | -0.8334 | 0.350                      | -0.7318 |
| 0.400                       | -0.8840 | 0.400                    | -0.9056 | 0.400                      | -0.7830 |
| 0.450                       | -0.8895 | 0.450                    | -0.9378 | 0.450                      | -0.7944 |
| 0.500                       | -0.9543 | 0.500                    | -0.9760 | 0.500                      | -0.8758 |
| 0.550                       | -0.4161 | 0.550                    | -0.9836 | 0.550                      | -0.9031 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2397  | 0.005 | 0.2259  | 0.005 | 0.1584  |
| 0.010 | -0.0484 | 0.010 | -0.1324 | 0.010 | -0.2743 |

Flight 20 Test point 41

Sweep, deg = 34.9 Mach = 0.81 hp, ft = 20100. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 438.6 Rho = 3377000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7313  | 0.000                    | 0.7550  | 0.000                      | 0.7471  |
| 0.005                       | 0.1050  | 0.005                    | 0.1186  | 0.005                      | 0.3251  |
| 0.010                       | -0.1091 | 0.010                    | -0.0877 | 0.010                      | 0.0922  |
| 0.020                       | -0.3110 | 0.020                    | -0.3039 | 0.020                      | -0.1924 |
| 0.040                       | -0.4600 | 0.040                    | -0.4179 | 0.040                      | -0.3316 |
| 0.060                       | -0.4911 | 0.060                    | -0.4735 | 0.060                      | -0.4096 |
| 0.080                       | -0.5162 | 0.080                    | -0.5072 | 0.080                      | -0.4332 |
| 0.100                       | -0.5803 | 0.100                    | -0.5077 | 0.100                      | -0.4551 |
| 0.125                       | -0.5098 | 0.125                    | -0.5480 | 0.125                      | -0.4973 |
| 0.150                       | -0.5603 | 0.150                    | -0.5493 | 0.150                      | -0.5074 |
| 0.175                       | -0.5729 | 0.175                    | -0.5944 | 0.175                      | -0.5208 |
| 0.200                       | -0.6401 | 0.200                    | -0.6158 | 0.200                      | -0.5249 |
| 0.250                       | -0.6593 | 0.250                    | -0.6947 | 0.250                      | -0.5591 |
| 0.300                       | -0.6720 | 0.300                    | -0.7245 | 0.300                      | -0.5470 |
| 0.350                       | -0.6596 | 0.350                    | -0.7336 | 0.350                      | -0.5785 |
| 0.400                       | -0.6233 | 0.400                    | -0.4904 | 0.400                      | -0.6018 |
| 0.450                       | -0.4674 | 0.450                    | -0.4961 | 0.450                      | -0.4638 |
| 0.500                       | -0.4385 | 0.500                    | -0.4839 | 0.500                      | -0.4185 |
| 0.550                       | -0.3952 | 0.550                    | -0.4742 | 0.550                      | -0.4134 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.2833 | 0.005 | 0.2951 | 0.005 | 0.2453  |
| 0.010 | 0.0733 | 0.010 | 0.0444 | 0.010 | -0.0454 |

Fight 20 Test point 42

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20100. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 437.8 Rnpu = 3374000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9928  | 0.000                    | 1.0258  | 0.000                      | 1.0097  |
| 0.005                       | 0.2714  | 0.005                    | 0.3341  | 0.005                      | 0.5616  |
| 0.010                       | 0.0019  | 0.010                    | 0.0716  | 0.010                      | 0.2875  |
| 0.020                       | -0.2566 | 0.020                    | -0.1921 | 0.020                      | -0.0687 |
| 0.040                       | -0.4776 | 0.040                    | -0.3897 | 0.040                      | -0.2649 |
| 0.060                       | -0.5425 | 0.060                    | -0.4630 | 0.060                      | -0.3824 |
| 0.080                       | -0.6052 | 0.080                    | -0.5159 | 0.080                      | -0.4286 |
| 0.100                       | -0.6163 | 0.100                    | -0.5918 | 0.100                      | -0.4547 |
| 0.125                       | -0.5708 | 0.125                    | -0.5311 | 0.125                      | -0.4676 |
| 0.150                       | -0.7173 | 0.150                    | -0.5729 | 0.150                      | -0.5536 |
| 0.175                       | -0.7060 | 0.175                    | -0.6358 | 0.175                      | -0.6403 |
| 0.200                       | -0.7749 | 0.200                    | -0.6789 | 0.200                      | -0.5966 |
| 0.250                       | -0.8836 | 0.250                    | -0.7886 | 0.250                      | -0.6707 |
| 0.300                       | -0.9431 | 0.300                    | -0.8664 | 0.300                      | -0.7340 |
| 0.350                       | -0.9503 | 0.350                    | -0.9180 | 0.350                      | -0.8186 |
| 0.400                       | -0.9538 | 0.400                    | -0.9904 | 0.400                      | -0.8758 |
| 0.450                       | -0.9552 | 0.450                    | -1.0237 | 0.450                      | -0.9299 |
| 0.500                       | -1.0622 | 0.500                    | -1.0662 | 0.500                      | -0.9329 |
| 0.550                       | -0.4704 | 0.550                    | -0.5199 | 0.550                      | -0.8324 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4169 | 0.005 | 0.4012 | 0.005 | 0.3330  |
| 0.010 | 0.1520 | 0.010 | 0.0764 | 0.010 | -0.0612 |

Flight 20 Test point 43

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 435.0 Rnpu = 3361000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8961  | 0.000                    | 0.9297  | 0.000                      | 0.9169  |
| 0.005                       | 0.3667  | 0.005                    | 0.4105  | 0.005                      | 0.6030  |
| 0.010                       | 0.1177  | 0.010                    | 0.1763  | 0.010                      | 0.3616  |
| 0.020                       | -0.1252 | 0.020                    | -0.0781 | 0.020                      | 0.0411  |
| 0.040                       | -0.3131 | 0.040                    | -0.2639 | 0.040                      | -0.1539 |
| 0.060                       | -0.3920 | 0.060                    | -0.3332 | 0.060                      | -0.2718 |
| 0.080                       | -0.4433 | 0.080                    | -0.3890 | 0.080                      | -0.3206 |
| 0.100                       | -0.4979 | 0.100                    | -0.4219 | 0.100                      | -0.3505 |
| 0.125                       | -0.5299 | 0.125                    | -0.4463 | 0.125                      | -0.3918 |
| 0.150                       | -0.5524 | 0.150                    | -0.4967 | 0.150                      | -0.4307 |
| 0.175                       | -0.5815 | 0.175                    | -0.5510 | 0.175                      | -0.4767 |
| 0.200                       | -0.6504 | 0.200                    | -0.5881 | 0.200                      | -0.4959 |
| 0.250                       | -0.7413 | 0.250                    | -0.7038 | 0.250                      | -0.5859 |
| 0.300                       | -0.7820 | 0.300                    | -0.7636 | 0.300                      | -0.6482 |
| 0.350                       | -0.6947 | 0.350                    | -0.8088 | 0.350                      | -0.7260 |
| 0.400                       | -0.7385 | 0.400                    | -0.8596 | 0.400                      | -0.7676 |
| 0.450                       | -0.7490 | 0.450                    | -0.8742 | 0.450                      | -0.7873 |
| 0.500                       | -0.6739 | 0.500                    | -0.8815 | 0.500                      | -0.8122 |
| 0.550                       | -0.3941 | 0.550                    | -0.4442 | 0.550                      | -0.3878 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2045  | 0.005 | 0.2012  | 0.005 | 0.1292  |
| 0.010 | -0.0652 | 0.010 | -0.1355 | 0.010 | -0.2844 |

Flight 20 Test point 44

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 20200. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.5 QBAR, lb/ft<sup>2</sup> = 435.1 Rnpu = 3358000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9038  | 0.000                    | 0.9347  | 0.000                      | 0.9221  |
| 0.005                       | 0.2284  | 0.005                    | 0.2739  | 0.005                      | 0.4921  |
| 0.010                       | -0.0253 | 0.010                    | 0.0264  | 0.010                      | 0.2292  |
| 0.020                       | -0.2680 | 0.020                    | -0.2228 | 0.020                      | -0.1060 |
| 0.040                       | -0.4735 | 0.040                    | -0.4053 | 0.040                      | -0.2900 |
| 0.060                       | -0.5261 | 0.060                    | -0.4551 | 0.060                      | -0.3984 |
| 0.080                       | -0.5491 | 0.080                    | -0.4967 | 0.080                      | -0.4364 |
| 0.100                       | -0.5720 | 0.100                    | -0.6254 | 0.100                      | -0.4539 |
| 0.125                       | -0.6003 | 0.125                    | -0.5116 | 0.125                      | -0.4566 |
| 0.150                       | -0.6924 | 0.150                    | -0.5894 | 0.150                      | -0.5674 |
| 0.175                       | -0.6761 | 0.175                    | -0.6483 | 0.175                      | -0.6265 |
| 0.200                       | -0.7481 | 0.200                    | -0.6695 | 0.200                      | -0.5593 |
| 0.250                       | -0.8156 | 0.250                    | -0.7639 | 0.250                      | -0.6584 |
| 0.300                       | -0.9015 | 0.300                    | -0.8362 | 0.300                      | -0.7316 |
| 0.350                       | -0.8715 | 0.350                    | -0.8921 | 0.350                      | -0.8088 |
| 0.400                       | -0.8908 | 0.400                    | -0.9587 | 0.400                      | -0.8586 |
| 0.450                       | -0.8476 | 0.450                    | -0.9873 | 0.450                      | -0.8946 |
| 0.500                       | -0.8037 | 0.500                    | -1.0259 | 0.500                      | -0.9374 |
| 0.550                       | -0.4332 | 0.550                    | -0.6193 | 0.550                      | -0.6608 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3485 | 0.005 | 0.3447 | 0.005 | 0.2850  |
| 0.010 | 0.0943 | 0.010 | 0.0371 | 0.010 | -0.0884 |

Fight 20 Test point 45

Sweep, deg = 30.0 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 436.1 Rrho = 3369000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8098  | 0.000                    | 0.8452  | 0.000                      | 0.8335  |
| 0.005                       | 0.2663  | 0.005                    | 0.2990  | 0.005                      | 0.4941  |
| 0.010                       | 0.0369  | 0.010                    | 0.0785  | 0.010                      | 0.2616  |
| 0.020                       | -0.1860 | 0.020                    | -0.1549 | 0.020                      | -0.0429 |
| 0.040                       | -0.3601 | 0.040                    | -0.3012 | 0.040                      | -0.2186 |
| 0.060                       | -0.4171 | 0.060                    | -0.3732 | 0.060                      | -0.3026 |
| 0.080                       | -0.4596 | 0.080                    | -0.4268 | 0.080                      | -0.3464 |
| 0.100                       | -0.5260 | 0.100                    | -0.4540 | 0.100                      | -0.3815 |
| 0.125                       | -0.4591 | 0.125                    | -0.4686 | 0.125                      | -0.4287 |
| 0.150                       | -0.5579 | 0.150                    | -0.5075 | 0.150                      | -0.4439 |
| 0.175                       | -0.5545 | 0.175                    | -0.5542 | 0.175                      | -0.4798 |
| 0.200                       | -0.6441 | 0.200                    | -0.5854 | 0.200                      | -0.5029 |
| 0.250                       | -0.6748 | 0.250                    | -0.6894 | 0.250                      | -0.5725 |
| 0.300                       | -0.6882 | 0.300                    | -0.7297 | 0.300                      | -0.6159 |
| 0.350                       | -0.6799 | 0.350                    | -0.7349 | 0.350                      | -0.6678 |
| 0.400                       | -0.6560 | 0.400                    | -0.7776 | 0.400                      | -0.5722 |
| 0.450                       | -0.6096 | 0.450                    | -0.4722 | 0.450                      | -0.4976 |
| 0.500                       | -0.4521 | 0.500                    | -0.5139 | 0.500                      | -0.4462 |
| 0.550                       | -0.4054 | 0.550                    | -0.4900 | 0.550                      | -0.4299 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2068  | 0.005 | 0.2084  | 0.005 | 0.1493  |
| 0.010 | -0.0398 | 0.010 | -0.0913 | 0.010 | -0.2185 |

Fight 20 Test point 46

Sweep, deg = 30.0 Mach = 0.80 hp, ft = 20100. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 437.4 Rnpu = 3372000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8165  | 0.000                    | 0.8445  | 0.000                      | 0.8376  |
| 0.005                       | 0.1802  | 0.005                    | 0.2125  | 0.005                      | 0.4182  |
| 0.010                       | -0.0551 | 0.010                    | -0.0154 | 0.010                      | 0.1696  |
| 0.020                       | -0.2793 | 0.020                    | -0.2500 | 0.020                      | -0.1415 |
| 0.040                       | -0.4507 | 0.040                    | -0.3847 | 0.040                      | -0.3085 |
| 0.060                       | -0.4995 | 0.060                    | -0.4546 | 0.060                      | -0.3867 |
| 0.080                       | -0.5525 | 0.080                    | -0.5060 | 0.080                      | -0.4217 |
| 0.100                       | -0.5654 | 0.100                    | -0.5138 | 0.100                      | -0.4448 |
| 0.125                       | -0.5890 | 0.125                    | -0.5494 | 0.125                      | -0.4802 |
| 0.150                       | -0.6365 | 0.150                    | -0.5644 | 0.150                      | -0.5865 |
| 0.175                       | -0.6220 | 0.175                    | -0.5963 | 0.175                      | -0.5157 |
| 0.200                       | -0.6713 | 0.200                    | -0.6328 | 0.200                      | -0.5491 |
| 0.250                       | -0.6554 | 0.250                    | -0.7422 | 0.250                      | -0.6442 |
| 0.300                       | -0.7196 | 0.300                    | -0.7921 | 0.300                      | -0.6938 |
| 0.350                       | -0.7369 | 0.350                    | -0.8085 | 0.350                      | -0.7489 |
| 0.400                       | -0.7337 | 0.400                    | -0.8611 | 0.400                      | -0.7861 |
| 0.450                       | -0.7386 | 0.450                    | -0.8573 | 0.450                      | -0.6894 |
| 0.500                       | -0.4698 | 0.500                    | -0.4482 | 0.500                      | -0.3839 |
| 0.550                       | -0.3991 | 0.550                    | -0.4475 | 0.550                      | -0.4114 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.2903 | 0.005 | 0.3007 | 0.005 | 0.2479  |
| 0.010 | 0.0570 | 0.010 | 0.0169 | 0.010 | -0.0922 |



Fight 20 Test point 47

Sweep, deg = 34.9 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 436.1 Rnpu = 3370000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7200  | 0.000                    | 0.7564  | 0.000                      | 0.7464  |
| 0.005                       | 0.2125  | 0.005                    | 0.2342  | 0.005                      | 0.4239  |
| 0.010                       | 0.0038  | 0.010                    | 0.0315  | 0.010                      | 0.2081  |
| 0.020                       | -0.1891 | 0.020                    | -0.1832 | 0.020                      | -0.0674 |
| 0.040                       | -0.3480 | 0.040                    | -0.3089 | 0.040                      | -0.2059 |
| 0.060                       | -0.3972 | 0.060                    | -0.3662 | 0.060                      | -0.2954 |
| 0.080                       | -0.4419 | 0.080                    | -0.4094 | 0.080                      | -0.3317 |
| 0.100                       | -0.4491 | 0.100                    | -0.4276 | 0.100                      | -0.3572 |
| 0.125                       | -0.4362 | 0.125                    | -0.4427 | 0.125                      | -0.3796 |
| 0.150                       | -0.5058 | 0.150                    | -0.4752 | 0.150                      | -0.4035 |
| 0.175                       | -0.5288 | 0.175                    | -0.5094 | 0.175                      | -0.4366 |
| 0.200                       | -0.5554 | 0.200                    | -0.5377 | 0.200                      | -0.4388 |
| 0.250                       | -0.5634 | 0.250                    | -0.5678 | 0.250                      | -0.4971 |
| 0.300                       | -0.6313 | 0.300                    | -0.5734 | 0.300                      | -0.4953 |
| 0.350                       | -0.5954 | 0.350                    | -0.5645 | 0.350                      | -0.5477 |
| 0.400                       | -0.5183 | 0.400                    | -0.5236 | 0.400                      | -0.4755 |
| 0.450                       | -0.4528 | 0.450                    | -0.4935 | 0.450                      | -0.4515 |
| 0.500                       | -0.4317 | 0.500                    | -0.4622 | 0.500                      | -0.4072 |
| 0.550                       | -0.3802 | 0.550                    | -0.4519 | 0.550                      | -0.4063 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.1650  | 0.005 | 0.1792  | 0.005 | 0.1211  |
| 0.010 | -0.0562 | 0.010 | -0.0884 | 0.010 | -0.2085 |

Fight 20 Test point 48

Sweep, deg = 34.9 Mach = 0.80 hp, ft = 19700. Angle of attack, deg = -0.1  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 442.4 Rnpu = 3412000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7141  | 0.000                    | 0.7517  | 0.000                      | 0.7425  |
| 0.005                       | 0.2641  | 0.005                    | 0.2849  | 0.005                      | 0.4676  |
| 0.010                       | 0.0563  | 0.010                    | 0.0890  | 0.010                      | 0.2603  |
| 0.020                       | -0.1359 | 0.020                    | -0.1198 | 0.020                      | -0.0080 |
| 0.040                       | -0.2971 | 0.040                    | -0.2570 | 0.040                      | -0.1526 |
| 0.060                       | -0.3541 | 0.060                    | -0.3192 | 0.060                      | -0.2502 |
| 0.080                       | -0.3990 | 0.080                    | -0.3629 | 0.080                      | -0.2895 |
| 0.100                       | -0.4148 | 0.100                    | -0.3841 | 0.100                      | -0.3167 |
| 0.125                       | -0.4090 | 0.125                    | -0.4043 | 0.125                      | -0.3373 |
| 0.150                       | -0.4839 | 0.150                    | -0.4377 | 0.150                      | -0.3667 |
| 0.175                       | -0.4696 | 0.175                    | -0.4766 | 0.175                      | -0.3976 |
| 0.200                       | -0.5090 | 0.200                    | -0.5081 | 0.200                      | -0.4059 |
| 0.250                       | -0.5624 | 0.250                    | -0.5666 | 0.250                      | -0.4623 |
| 0.300                       | -0.5934 | 0.300                    | -0.5451 | 0.300                      | -0.4764 |
| 0.350                       | -0.5235 | 0.350                    | -0.5149 | 0.350                      | -0.4949 |
| 0.400                       | -0.5091 | 0.400                    | -0.5161 | 0.400                      | -0.4638 |
| 0.450                       | -0.4432 | 0.450                    | -0.4831 | 0.450                      | -0.4401 |
| 0.500                       | -0.4234 | 0.500                    | -0.4545 | 0.500                      | -0.4001 |
| 0.550                       | -0.3748 | 0.550                    | -0.4486 | 0.550                      | -0.4030 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.1084  | 0.005 | 0.1238  | 0.005 | 0.0577  |
| 0.010 | -0.1212 | 0.010 | -0.1608 | 0.010 | -0.2882 |

Fight 20 Test point 49

Sweep, deg = 34.9 Mach = 0.80 hp, ft = 20100. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 436.0 R<sub>npu</sub> = 3366000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7268  | 0.000                    | 0.7527  | 0.000                      | 0.7497  |
| 0.005                       | 0.1053  | 0.005                    | 0.1169  | 0.005                      | 0.3227  |
| 0.010                       | -0.1122 | 0.010                    | -0.0892 | 0.010                      | 0.0910  |
| 0.020                       | -0.3176 | 0.020                    | -0.3098 | 0.020                      | -0.1945 |
| 0.040                       | -0.4638 | 0.040                    | -0.4306 | 0.040                      | -0.3381 |
| 0.060                       | -0.4911 | 0.060                    | -0.4752 | 0.060                      | -0.4151 |
| 0.080                       | -0.5169 | 0.080                    | -0.5153 | 0.080                      | -0.4361 |
| 0.100                       | -0.5850 | 0.100                    | -0.5094 | 0.100                      | -0.4505 |
| 0.125                       | -0.5073 | 0.125                    | -0.5397 | 0.125                      | -0.4989 |
| 0.150                       | -0.5680 | 0.150                    | -0.5504 | 0.150                      | -0.4613 |
| 0.175                       | -0.5770 | 0.175                    | -0.5924 | 0.175                      | -0.5065 |
| 0.200                       | -0.6432 | 0.200                    | -0.6133 | 0.200                      | -0.5287 |
| 0.250                       | -0.6529 | 0.250                    | -0.6785 | 0.250                      | -0.5240 |
| 0.300                       | -0.6760 | 0.300                    | -0.7223 | 0.300                      | -0.5957 |
| 0.350                       | -0.6677 | 0.350                    | -0.6990 | 0.350                      | -0.5627 |
| 0.400                       | -0.6167 | 0.400                    | -0.5075 | 0.400                      | -0.5006 |
| 0.450                       | -0.4646 | 0.450                    | -0.5123 | 0.450                      | -0.4707 |
| 0.500                       | -0.4431 | 0.500                    | -0.4934 | 0.500                      | -0.4248 |
| 0.550                       | -0.3923 | 0.550                    | -0.4711 | 0.550                      | -0.4197 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.2814 | 0.005 | 0.3008 | 0.005 | 0.2538  |
| 0.010 | 0.0741 | 0.010 | 0.0532 | 0.010 | -0.0370 |

Flight 20 Test point 50

Sweep, deg = 26.8 Mach = 0.75 hp, ft = 21200. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 363.4 Rrho = 2997000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9860  | 0.000                    | 1.0202  | 0.000                      | 1.0149  |
| 0.005                       | 0.2475  | 0.005                    | 0.2901  | 0.005                      | 0.5393  |
| 0.010                       | -0.0012 | 0.010                    | 0.0501  | 0.010                      | 0.2711  |
| 0.020                       | -0.2300 | 0.020                    | -0.1876 | 0.020                      | -0.0531 |
| 0.040                       | -0.3964 | 0.040                    | -0.3323 | 0.040                      | -0.2091 |
| 0.060                       | -0.4339 | 0.060                    | -0.3718 | 0.060                      | -0.2904 |
| 0.080                       | -0.4562 | 0.080                    | -0.4040 | 0.080                      | -0.3163 |
| 0.100                       | -0.4767 | 0.100                    | -0.4204 | 0.100                      | -0.3323 |
| 0.125                       | -0.4287 | 0.125                    | -0.4222 | 0.125                      | -0.3447 |
| 0.150                       | -0.5059 | 0.150                    | -0.4522 | 0.150                      | -0.3788 |
| 0.175                       | -0.4993 | 0.175                    | -0.4888 | 0.175                      | -0.4058 |
| 0.200                       | -0.5536 | 0.200                    | -0.5089 | 0.200                      | -0.4036 |
| 0.250                       | -0.5819 | 0.250                    | -0.5758 | 0.250                      | -0.4575 |
| 0.300                       | -0.5887 | 0.300                    | -0.5863 | 0.300                      | -0.4703 |
| 0.350                       | -0.5452 | 0.350                    | -0.5692 | 0.350                      | -0.4939 |
| 0.400                       | -0.5028 | 0.400                    | -0.5501 | 0.400                      | -0.4772 |
| 0.450                       | -0.4451 | 0.450                    | -0.4916 | 0.450                      | -0.4478 |
| 0.500                       | -0.4128 | 0.500                    | -0.4652 | 0.500                      | -0.4002 |
| 0.550                       | -0.2808 | 0.550                    | -0.3859 | 0.550                      | -0.3497 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4911 | 0.005 | 0.4951 | 0.005 | 0.4278 |
| 0.010 | 0.2516 | 0.010 | 0.2069 | 0.010 | 0.0769 |

Fight 20 Test point 51

Sweep, deg = 29.7 Mach = 0.83 hp, ft = 20000. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 462.9 Rnpu = 3484000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8134  | 0.000                    | 0.8482  | 0.000                      | 0.8335  |
| 0.005                       | 0.3442  | 0.005                    | 0.3792  | 0.005                      | 0.5543  |
| 0.010                       | 0.1162  | 0.010                    | 0.1642  | 0.010                      | 0.3337  |
| 0.020                       | -0.1050 | 0.020                    | -0.0647 | 0.020                      | 0.0359  |
| 0.040                       | -0.2918 | 0.040                    | -0.2261 | 0.040                      | -0.1297 |
| 0.060                       | -0.3594 | 0.060                    | -0.3059 | 0.060                      | -0.2436 |
| 0.080                       | -0.4026 | 0.080                    | -0.3643 | 0.080                      | -0.2901 |
| 0.100                       | -0.4727 | 0.100                    | -0.3955 | 0.100                      | -0.3269 |
| 0.125                       | -0.4646 | 0.125                    | -0.4087 | 0.125                      | -0.3832 |
| 0.150                       | -0.4866 | 0.150                    | -0.4574 | 0.150                      | -0.3943 |
| 0.175                       | -0.5216 | 0.175                    | -0.5094 | 0.175                      | -0.4487 |
| 0.200                       | -0.5996 | 0.200                    | -0.5436 | 0.200                      | -0.4660 |
| 0.250                       | -0.5973 | 0.250                    | -0.6516 | 0.250                      | -0.5619 |
| 0.300                       | -0.6509 | 0.300                    | -0.7011 | 0.300                      | -0.6210 |
| 0.350                       | -0.6847 | 0.350                    | -0.7350 | 0.350                      | -0.6839 |
| 0.400                       | -0.6926 | 0.400                    | -0.7958 | 0.400                      | -0.7295 |
| 0.450                       | -0.7091 | 0.450                    | -0.8093 | 0.450                      | -0.7701 |
| 0.500                       | -0.7595 | 0.500                    | -0.8434 | 0.500                      | -0.8206 |
| 0.550                       | -0.4267 | 0.550                    | -0.5458 | 0.550                      | -0.4026 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.1572  | 0.005 | 0.1576  | 0.005 | 0.0890  |
| 0.010 | -0.0871 | 0.010 | -0.1542 | 0.010 | -0.2949 |

Fight 21 Test point 1

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 34800. Angle of attack, deg = 5.1  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 172.5 R<sub>rho</sub> = 1674000.

Upper surface

| BL 200.8<br>Inboard station |                | BL 260<br>Middle station |                | BL 320<br>Outboard station |                |
|-----------------------------|----------------|--------------------------|----------------|----------------------------|----------------|
| x/c                         | C <sub>p</sub> | x/c                      | C <sub>p</sub> | x/c                        | C <sub>p</sub> |
| 0.000                       | 0.3376         | 0.000                    | 0.3176         | 0.000                      | 0.3550         |
| 0.005                       | -1.1074        | 0.005                    | -1.1024        | 0.005                      | -0.7481        |
| 0.010                       | -1.3278        | 0.010                    | -1.3958        | 0.010                      | -1.1116        |
| 0.020                       | -1.5254        | 0.020                    | -1.5703        | 0.020                      | -1.5026        |
| 0.040                       | -1.5957        | 0.040                    | -1.6393        | 0.040                      | -1.6074        |
| 0.060                       | -1.6191        | 0.060                    | -1.6096        | 0.060                      | -1.5695        |
| 0.080                       | -1.5295        | 0.080                    | -1.5831        | 0.080                      | -1.4906        |
| 0.100                       | -1.1491        | 0.100                    | -1.4812        | 0.100                      | -1.0654        |
| 0.125                       | -0.7677        | 0.125                    | -0.8616        | 0.125                      | -0.8089        |
| 0.150                       | -0.9158        | 0.150                    | -0.8342        | 0.150                      | -0.8116        |
| 0.175                       | -0.8222        | 0.175                    | -0.8488        | 0.175                      | -0.8166        |
| 0.200                       | -0.8675        | 0.200                    | -0.8511        | 0.200                      | -0.7688        |
| 0.250                       | -0.8214        | 0.250                    | -0.8423        | 0.250                      | -0.7488        |
| 0.300                       | -0.7562        | 0.300                    | -0.7699        | 0.300                      | -0.6789        |
| 0.350                       | -0.6712        | 0.350                    | -0.6761        | 0.350                      | -0.6370        |
| 0.400                       | -0.5952        | 0.400                    | -0.6421        | 0.400                      | -0.5816        |
| 0.450                       | -0.5170        | 0.450                    | -0.5521        | 0.450                      | -0.5346        |
| 0.500                       | -0.4824        | 0.500                    | -0.5180        | 0.500                      | -0.4774        |
| 0.550                       | -0.3954        | 0.550                    | -0.4701        | 0.550                      | -0.4409        |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.6779 | 0.005 | 0.7484 | 0.005 | 0.7287 |
| 0.010 | 0.6028 | 0.010 | 0.6392 | 0.010 | 0.6168 |

Fight 21 Test point 2

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 35000. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 172.2 Rnpu = 1669000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7115  | 0.000                    | 0.7571  | 0.000                      | 0.7508  |
| 0.005                       | 0.1086  | 0.005                    | 0.1318  | 0.005                      | 0.3574  |
| 0.010                       | -0.1060 | 0.010                    | -0.0557 | 0.010                      | 0.1259  |
| 0.020                       | -0.2799 | 0.020                    | -0.2524 | 0.020                      | -0.1374 |
| 0.040                       | -0.4036 | 0.040                    | -0.3588 | 0.040                      | -0.2643 |
| 0.060                       | -0.4374 | 0.060                    | -0.3721 | 0.060                      | -0.3184 |
| 0.080                       | -0.4578 | 0.080                    | -0.3976 | 0.080                      | -0.3354 |
| 0.100                       | -0.4461 | 0.100                    | -0.4092 | 0.100                      | -0.3445 |
| 0.125                       | -0.4161 | 0.125                    | -0.4099 | 0.125                      | -0.3523 |
| 0.150                       | -0.4751 | 0.150                    | -0.4328 | 0.150                      | -0.3750 |
| 0.175                       | -0.4681 | 0.175                    | -0.4458 | 0.175                      | -0.3909 |
| 0.200                       | -0.5029 | 0.200                    | -0.4595 | 0.200                      | -0.3784 |
| 0.250                       | -0.5105 | 0.250                    | -0.4984 | 0.250                      | -0.4205 |
| 0.300                       | -0.4888 | 0.300                    | -0.4870 | 0.300                      | -0.4053 |
| 0.350                       | -0.4658 | 0.350                    | -0.4507 | 0.350                      | -0.4156 |
| 0.400                       | -0.4285 | 0.400                    | -0.4575 | 0.400                      | -0.4092 |
| 0.450                       | -0.3861 | 0.450                    | -0.4075 | 0.450                      | -0.3950 |
| 0.500                       | -0.3763 | 0.500                    | -0.4049 | 0.500                      | -0.3700 |
| 0.550                       | -0.3243 | 0.550                    | -0.3972 | 0.550                      | -0.3673 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2033 | 0.005 | 0.2525  | 0.005 | 0.1841  |
| 0.010 | 0.0048 | 0.010 | -0.0049 | 0.010 | -0.1364 |

Flight 21 Test point 3

Sweep, deg = 34.9 Mach = 0.71 hp, ft = 34300. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 182.1 Rnpu = 1740000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.6985  | 0.000                    | 0.7424  | 0.000                      | 0.7378  |
| 0.005                       | -0.0493 | 0.005                    | -0.0425 | 0.005                      | 0.2158  |
| 0.010                       | -0.2665 | 0.010                    | -0.2244 | 0.010                      | -0.0361 |
| 0.020                       | -0.4363 | 0.020                    | -0.4120 | 0.020                      | -0.2952 |
| 0.040                       | -0.5414 | 0.040                    | -0.5021 | 0.040                      | -0.4076 |
| 0.060                       | -0.5542 | 0.060                    | -0.5026 | 0.060                      | -0.4456 |
| 0.080                       | -0.5567 | 0.080                    | -0.5109 | 0.080                      | -0.4415 |
| 0.100                       | -0.5369 | 0.100                    | -0.5033 | 0.100                      | -0.4473 |
| 0.125                       | -0.4857 | 0.125                    | -0.4964 | 0.125                      | -0.4346 |
| 0.150                       | -0.5603 | 0.150                    | -0.5120 | 0.150                      | -0.4530 |
| 0.175                       | -0.5435 | 0.175                    | -0.5317 | 0.175                      | -0.4709 |
| 0.200                       | -0.5767 | 0.200                    | -0.5360 | 0.200                      | -0.4573 |
| 0.250                       | -0.5724 | 0.250                    | -0.5662 | 0.250                      | -0.4844 |
| 0.300                       | -0.5411 | 0.300                    | -0.5416 | 0.300                      | -0.4640 |
| 0.350                       | -0.5102 | 0.350                    | -0.4972 | 0.350                      | -0.4637 |
| 0.400                       | -0.4701 | 0.400                    | -0.4985 | 0.400                      | -0.4486 |
| 0.450                       | -0.4180 | 0.450                    | -0.4438 | 0.450                      | -0.4280 |
| 0.500                       | -0.4079 | 0.500                    | -0.4437 | 0.500                      | -0.3945 |
| 0.550                       | -0.3513 | 0.550                    | -0.4256 | 0.550                      | -0.3936 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3325 | 0.005 | 0.3785 | 0.005 | 0.3201 |
| 0.010 | 0.1347 | 0.010 | 0.1383 | 0.010 | 0.0348 |



Fight 21 Test point 4

Sweep, deg = 29.7 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 4.2  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 172.6 Rnpu = 1677000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.5637  | 0.000                    | 0.5825  | 0.000                      | 0.6134  |
| 0.005                       | -0.7982 | 0.005                    | -0.7946 | 0.005                      | -0.4185 |
| 0.010                       | -1.0542 | 0.010                    | -1.0724 | 0.010                      | -0.7860 |
| 0.020                       | -1.2578 | 0.020                    | -1.2403 | 0.020                      | -1.1883 |
| 0.040                       | -1.3825 | 0.040                    | -1.3979 | 0.040                      | -1.2190 |
| 0.060                       | -1.4300 | 0.060                    | -1.3961 | 0.060                      | -1.1862 |
| 0.080                       | -1.3514 | 0.080                    | -1.3388 | 0.080                      | -1.1042 |
| 0.100                       | -1.2654 | 0.100                    | -1.2551 | 0.100                      | -1.0689 |
| 0.125                       | -0.7420 | 0.125                    | -0.7290 | 0.125                      | -0.8639 |
| 0.150                       | -0.9184 | 0.150                    | -0.8528 | 0.150                      | -0.8154 |
| 0.175                       | -0.8878 | 0.175                    | -0.9515 | 0.175                      | -0.8357 |
| 0.200                       | -0.9202 | 0.200                    | -0.8742 | 0.200                      | -0.7846 |
| 0.250                       | -0.8684 | 0.250                    | -0.9218 | 0.250                      | -0.7836 |
| 0.300                       | -0.8089 | 0.300                    | -0.8274 | 0.300                      | -0.7144 |
| 0.350                       | -0.7203 | 0.350                    | -0.7264 | 0.350                      | -0.6781 |
| 0.400                       | -0.6312 | 0.400                    | -0.6840 | 0.400                      | -0.6206 |
| 0.450                       | -0.5482 | 0.450                    | -0.5948 | 0.450                      | -0.5701 |
| 0.500                       | -0.5144 | 0.500                    | -0.5651 | 0.500                      | -0.5014 |
| 0.550                       | -0.4281 | 0.550                    | -0.5177 | 0.550                      | -0.4697 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.7115 | 0.005 | 0.7741 | 0.005 | 0.7431 |
| 0.010 | 0.5738 | 0.010 | 0.6070 | 0.010 | 0.5613 |

Fight 21 Test point 5

Sweep, deg = 29.7 Mach = 0.71 hp, ft = 35300. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 174.1 Rnpu = 1672000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8056  | 0.000                    | 0.8597  | 0.000                      | 0.8479  |
| 0.005                       | 0.2003  | 0.005                    | 0.2313  | 0.005                      | 0.4688  |
| 0.010                       | -0.0269 | 0.010                    | 0.0279  | 0.010                      | 0.2220  |
| 0.020                       | -0.2325 | 0.020                    | -0.2041 | 0.020                      | -0.0673 |
| 0.040                       | -0.3965 | 0.040                    | -0.3388 | 0.040                      | -0.2280 |
| 0.060                       | -0.4473 | 0.060                    | -0.3781 | 0.060                      | -0.3100 |
| 0.080                       | -0.4705 | 0.080                    | -0.4057 | 0.080                      | -0.3321 |
| 0.100                       | -0.4720 | 0.100                    | -0.4204 | 0.100                      | -0.3523 |
| 0.125                       | -0.4524 | 0.125                    | -0.4270 | 0.125                      | -0.3581 |
| 0.150                       | -0.5202 | 0.150                    | -0.4539 | 0.150                      | -0.3869 |
| 0.175                       | -0.5143 | 0.175                    | -0.4867 | 0.175                      | -0.4181 |
| 0.200                       | -0.5557 | 0.200                    | -0.4990 | 0.200                      | -0.4014 |
| 0.250                       | -0.5588 | 0.250                    | -0.5527 | 0.250                      | -0.4559 |
| 0.300                       | -0.5442 | 0.300                    | -0.5478 | 0.300                      | -0.4505 |
| 0.350                       | -0.5158 | 0.350                    | -0.4988 | 0.350                      | -0.4642 |
| 0.400                       | -0.4775 | 0.400                    | -0.5101 | 0.400                      | -0.4503 |
| 0.450                       | -0.4288 | 0.450                    | -0.4562 | 0.450                      | -0.4424 |
| 0.500                       | -0.4181 | 0.500                    | -0.4587 | 0.500                      | -0.4050 |
| 0.550                       | -0.3631 | 0.550                    | -0.4431 | 0.550                      | -0.4043 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.1999  | 0.005 | 0.2557  | 0.005 | 0.1637  |
| 0.010 | -0.0397 | 0.010 | -0.0572 | 0.010 | -0.2092 |

Flight 21 Test point 6

Sweep, deg = 23.7 Mach = 0.70 hp, ft = 36100. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 160.7 Rnpu = 1576000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7991  | 0.000                    | 0.8508  | 0.000                      | 0.8428  |
| 0.005                       | 0.0105  | 0.005                    | 0.0458  | 0.005                      | 0.3229  |
| 0.010                       | -0.2307 | 0.010                    | -0.1685 | 0.010                      | 0.0422  |
| 0.020                       | -0.4253 | 0.020                    | -0.3884 | 0.020                      | -0.2465 |
| 0.040                       | -0.5524 | 0.040                    | -0.5020 | 0.040                      | -0.3845 |
| 0.060                       | -0.5806 | 0.060                    | -0.5107 | 0.060                      | -0.4478 |
| 0.080                       | -0.5911 | 0.080                    | -0.5288 | 0.080                      | -0.4426 |
| 0.100                       | -0.5745 | 0.100                    | -0.5304 | 0.100                      | -0.4508 |
| 0.125                       | -0.5154 | 0.125                    | -0.5181 | 0.125                      | -0.4535 |
| 0.150                       | -0.5919 | 0.150                    | -0.5505 | 0.150                      | -0.4721 |
| 0.175                       | -0.5762 | 0.175                    | -0.5592 | 0.175                      | -0.4958 |
| 0.200                       | -0.6250 | 0.200                    | -0.5755 | 0.200                      | -0.4758 |
| 0.250                       | -0.6186 | 0.250                    | -0.6046 | 0.250                      | -0.5085 |
| 0.300                       | -0.5843 | 0.300                    | -0.5833 | 0.300                      | -0.4953 |
| 0.350                       | -0.5457 | 0.350                    | -0.5377 | 0.350                      | -0.5012 |
| 0.400                       | -0.5007 | 0.400                    | -0.5394 | 0.400                      | -0.4837 |
| 0.450                       | -0.4459 | 0.450                    | -0.4810 | 0.450                      | -0.4588 |
| 0.500                       | -0.4343 | 0.500                    | -0.4768 | 0.500                      | -0.4237 |
| 0.550                       | -0.3661 | 0.550                    | -0.4553 | 0.550                      | -0.4141 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3608 | 0.005 | 0.4058 | 0.005 | 0.3290  |
| 0.010 | 0.1406 | 0.010 | 0.1229 | 0.010 | -0.0044 |

Fight 21 Test point 7

Sweep, deg = 24.8 Mach = 0.71 hp, ft = 35000. Angle of attack, deg = 3.2  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 174.0 Rnpu = 1685000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7724  | 0.000                    | 0.8091  | 0.000                      | 0.8208  |
| 0.005                       | -0.4795 | 0.005                    | -0.4470 | 0.005                      | -0.0724 |
| 0.010                       | -0.7658 | 0.010                    | -0.7157 | 0.010                      | -0.4373 |
| 0.020                       | -0.9899 | 0.020                    | -0.9462 | 0.020                      | -0.8223 |
| 0.040                       | -1.1325 | 0.040                    | -1.1188 | 0.040                      | -0.9047 |
| 0.060                       | -1.2037 | 0.060                    | -1.0732 | 0.060                      | -0.9410 |
| 0.080                       | -1.1183 | 0.080                    | -0.9622 | 0.080                      | -0.9263 |
| 0.100                       | -1.0001 | 0.100                    | -0.9714 | 0.100                      | -0.8755 |
| 0.125                       | -0.8699 | 0.125                    | -0.9067 | 0.125                      | -0.7962 |
| 0.150                       | -0.8740 | 0.150                    | -0.8681 | 0.150                      | -0.7961 |
| 0.175                       | -0.8962 | 0.175                    | -0.9160 | 0.175                      | -0.8201 |
| 0.200                       | -0.9620 | 0.200                    | -0.8998 | 0.200                      | -0.7769 |
| 0.250                       | -0.8913 | 0.250                    | -0.9975 | 0.250                      | -0.7672 |
| 0.300                       | -0.8266 | 0.300                    | -0.8435 | 0.300                      | -0.7165 |
| 0.350                       | -0.7356 | 0.350                    | -0.7516 | 0.350                      | -0.7012 |
| 0.400                       | -0.6555 | 0.400                    | -0.7108 | 0.400                      | -0.6393 |
| 0.450                       | -0.5666 | 0.450                    | -0.6175 | 0.450                      | -0.5943 |
| 0.500                       | -0.5271 | 0.500                    | -0.5865 | 0.500                      | -0.5241 |
| 0.550                       | -0.4384 | 0.550                    | -0.5420 | 0.550                      | -0.4843 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.6934 | 0.005 | 0.7430 | 0.005 | 0.6973 |
| 0.010 | 0.5093 | 0.010 | 0.5156 | 0.010 | 0.4302 |

Fight 21 Test point 8

Sweep, deg = 24.7 Mach = 0.72 hp, ft = 35000. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 178.1 Rrho = 1707000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9017  | 0.000                    | 0.9492  | 0.000                      | 0.9354  |
| 0.005                       | 0.2035  | 0.005                    | 0.2500  | 0.005                      | 0.5114  |
| 0.010                       | -0.0449 | 0.010                    | 0.0161  | 0.010                      | 0.2352  |
| 0.020                       | -0.2839 | 0.020                    | -0.2292 | 0.020                      | -0.0829 |
| 0.040                       | -0.4574 | 0.040                    | -0.3890 | 0.040                      | -0.2607 |
| 0.060                       | -0.5174 | 0.060                    | -0.4298 | 0.060                      | -0.3436 |
| 0.080                       | -0.5485 | 0.080                    | -0.4696 | 0.080                      | -0.3762 |
| 0.100                       | -0.5534 | 0.100                    | -0.4888 | 0.100                      | -0.3985 |
| 0.125                       | -0.5112 | 0.125                    | -0.4970 | 0.125                      | -0.4186 |
| 0.150                       | -0.6020 | 0.150                    | -0.5347 | 0.150                      | -0.4579 |
| 0.175                       | -0.5929 | 0.175                    | -0.5637 | 0.175                      | -0.4783 |
| 0.200                       | -0.6414 | 0.200                    | -0.5834 | 0.200                      | -0.4747 |
| 0.250                       | -0.6521 | 0.250                    | -0.6437 | 0.250                      | -0.5181 |
| 0.300                       | -0.6414 | 0.300                    | -0.6357 | 0.300                      | -0.5176 |
| 0.350                       | -0.5898 | 0.350                    | -0.5834 | 0.350                      | -0.5348 |
| 0.400                       | -0.5406 | 0.400                    | -0.5894 | 0.400                      | -0.5175 |
| 0.450                       | -0.4824 | 0.450                    | -0.5204 | 0.450                      | -0.4996 |
| 0.500                       | -0.4564 | 0.500                    | -0.5099 | 0.500                      | -0.4488 |
| 0.550                       | -0.3943 | 0.550                    | -0.4937 | 0.550                      | -0.4265 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2863 | 0.005 | 0.3068  | 0.005 | 0.2159  |
| 0.010 | 0.0301 | 0.010 | -0.0201 | 0.010 | -0.1788 |

Flight 21 Test point 9

Sweep, deg = 24.6 Mach = 0.71 hp, ft = 35300. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 170.2 Rnpu = 1656000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8856  | 0.000                    | 0.9375  | 0.000                      | 0.9300  |
| 0.005                       | 0.0411  | 0.005                    | 0.0895  | 0.005                      | 0.3759  |
| 0.010                       | -0.2195 | 0.010                    | -0.1517 | 0.010                      | 0.0849  |
| 0.020                       | -0.4475 | 0.020                    | -0.4010 | 0.020                      | -0.2425 |
| 0.040                       | -0.6084 | 0.040                    | -0.5330 | 0.040                      | -0.3933 |
| 0.060                       | -0.6371 | 0.060                    | -0.5578 | 0.060                      | -0.4713 |
| 0.080                       | -0.6519 | 0.080                    | -0.5772 | 0.080                      | -0.4810 |
| 0.100                       | -0.6449 | 0.100                    | -0.5874 | 0.100                      | -0.4942 |
| 0.125                       | -0.5896 | 0.125                    | -0.5796 | 0.125                      | -0.4953 |
| 0.150                       | -0.6757 | 0.150                    | -0.6100 | 0.150                      | -0.5301 |
| 0.175                       | -0.6544 | 0.175                    | -0.6413 | 0.175                      | -0.5448 |
| 0.200                       | -0.7054 | 0.200                    | -0.6539 | 0.200                      | -0.5336 |
| 0.250                       | -0.6994 | 0.250                    | -0.7024 | 0.250                      | -0.5732 |
| 0.300                       | -0.6693 | 0.300                    | -0.6688 | 0.300                      | -0.5610 |
| 0.350                       | -0.6167 | 0.350                    | -0.6114 | 0.350                      | -0.5670 |
| 0.400                       | -0.5631 | 0.400                    | -0.6144 | 0.400                      | -0.5410 |
| 0.450                       | -0.5010 | 0.450                    | -0.5368 | 0.450                      | -0.5121 |
| 0.500                       | -0.4733 | 0.500                    | -0.5275 | 0.500                      | -0.4636 |
| 0.550                       | -0.4063 | 0.550                    | -0.5075 | 0.550                      | -0.4455 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4134 | 0.005 | 0.4412 | 0.005 | 0.3627  |
| 0.010 | 0.1731 | 0.010 | 0.1428 | 0.010 | -0.0030 |

Fight 21 Test point 10

Sweep, deg = 20.1 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 3.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 173.5 Rnpu = 1683000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8250  | 0.000                    | 0.8566  | 0.000                      | 0.8842  |
| 0.005                       | -0.4831 | 0.005                    | -0.4445 | 0.005                      | -0.0526 |
| 0.010                       | -0.7847 | 0.010                    | -0.7374 | 0.010                      | -0.4400 |
| 0.020                       | -1.0304 | 0.020                    | -0.9695 | 0.020                      | -0.8631 |
| 0.040                       | -1.2061 | 0.040                    | -1.1788 | 0.040                      | -0.9670 |
| 0.060                       | -1.2944 | 0.060                    | -1.1874 | 0.060                      | -1.0246 |
| 0.080                       | -1.2486 | 0.080                    | -1.1636 | 0.080                      | -0.9730 |
| 0.100                       | -1.2308 | 0.100                    | -1.1341 | 0.100                      | -1.0199 |
| 0.125                       | -1.0292 | 0.125                    | -1.0911 | 0.125                      | -0.9066 |
| 0.150                       | -1.1737 | 0.150                    | -1.0435 | 0.150                      | -0.8431 |
| 0.175                       | -1.0885 | 0.175                    | -1.0158 | 0.175                      | -0.8758 |
| 0.200                       | -1.1238 | 0.200                    | -0.9794 | 0.200                      | -0.8582 |
| 0.250                       | -0.8565 | 0.250                    | -1.0423 | 0.250                      | -0.8368 |
| 0.300                       | -0.8590 | 0.300                    | -0.9125 | 0.300                      | -0.7981 |
| 0.350                       | -0.7836 | 0.350                    | -0.7901 | 0.350                      | -0.7592 |
| 0.400                       | -0.6862 | 0.400                    | -0.7649 | 0.400                      | -0.6969 |
| 0.450                       | -0.5945 | 0.450                    | -0.6585 | 0.450                      | -0.6378 |
| 0.500                       | -0.5543 | 0.500                    | -0.6281 | 0.500                      | -0.5637 |
| 0.550                       | -0.4603 | 0.550                    | -0.5730 | 0.550                      | -0.5071 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.7571 | 0.005 | 0.8069 | 0.005 | 0.7505 |
| 0.010 | 0.5648 | 0.010 | 0.5584 | 0.010 | 0.4705 |

Fight 21 Test point 11

Sweep, deg = 20.1 Mach = 0.70 hp, ft = 34800. Angle of attack, deg = 3.7  
 Angle of sideslip, deg = -5.3 QBAR, lb/ft<sup>2</sup> = 171.4 Rnpu = 1672000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8840  | 0.000                    | 0.9350  | 0.000                      | 0.9759  |
| 0.005                       | -0.4443 | 0.005                    | -0.3710 | 0.005                      | 0.0440  |
| 0.010                       | -0.7474 | 0.010                    | -0.6774 | 0.010                      | -0.3440 |
| 0.020                       | -1.0086 | 0.020                    | -0.9281 | 0.020                      | -0.7648 |
| 0.040                       | -1.2022 | 0.040                    | -1.1381 | 0.040                      | -0.8790 |
| 0.060                       | -1.3060 | 0.060                    | -1.1280 | 0.060                      | -0.9556 |
| 0.080                       | -1.2257 | 0.080                    | -1.0952 | 0.080                      | -0.9115 |
| 0.100                       | -1.2301 | 0.100                    | -1.0833 | 0.100                      | -0.9305 |
| 0.125                       | -1.0184 | 0.125                    | -1.0295 | 0.125                      | -0.8115 |
| 0.150                       | -1.1443 | 0.150                    | -0.9641 | 0.150                      | -0.8245 |
| 0.175                       | -1.0990 | 0.175                    | -0.9734 | 0.175                      | -0.8257 |
| 0.200                       | -1.1499 | 0.200                    | -0.9854 | 0.200                      | -0.8287 |
| 0.250                       | -0.9584 | 0.250                    | -1.0626 | 0.250                      | -0.8246 |
| 0.300                       | -0.8325 | 0.300                    | -1.0140 | 0.300                      | -0.7666 |
| 0.350                       | -0.7630 | 0.350                    | -0.7829 | 0.350                      | -0.7411 |
| 0.400                       | -0.6749 | 0.400                    | -0.7612 | 0.400                      | -0.6829 |
| 0.450                       | -0.5828 | 0.450                    | -0.6547 | 0.450                      | -0.6369 |
| 0.500                       | -0.5420 | 0.500                    | -0.6155 | 0.500                      | -0.5626 |
| 0.550                       | -0.4463 | 0.550                    | -0.5655 | 0.550                      | -0.4998 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.7978 | 0.005 | 0.8415 | 0.005 | 0.7685 |
| 0.010 | 0.5981 | 0.010 | 0.5796 | 0.010 | 0.4679 |



Flight 21 Test point 12

Sweep, deg = 20.0 Mach = 0.72 hp, ft = 34600. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 181.8 Rnpu = 1736000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9676  | 0.000                    | 1.0148  | 0.000                      | 1.0069  |
| 0.005                       | 0.1968  | 0.005                    | 0.2597  | 0.005                      | 0.5306  |
| 0.010                       | -0.0757 | 0.010                    | 0.0039  | 0.010                      | 0.2381  |
| 0.020                       | -0.3307 | 0.020                    | -0.2689 | 0.020                      | -0.1055 |
| 0.040                       | -0.5222 | 0.040                    | -0.4407 | 0.040                      | -0.2924 |
| 0.060                       | -0.5755 | 0.060                    | -0.4866 | 0.060                      | -0.3881 |
| 0.080                       | -0.6101 | 0.080                    | -0.5233 | 0.080                      | -0.4239 |
| 0.100                       | -0.6312 | 0.100                    | -0.5410 | 0.100                      | -0.4476 |
| 0.125                       | -0.5816 | 0.125                    | -0.5546 | 0.125                      | -0.4582 |
| 0.150                       | -0.6760 | 0.150                    | -0.5970 | 0.150                      | -0.4961 |
| 0.175                       | -0.6655 | 0.175                    | -0.6344 | 0.175                      | -0.5210 |
| 0.200                       | -0.7243 | 0.200                    | -0.6559 | 0.200                      | -0.5315 |
| 0.250                       | -0.7350 | 0.250                    | -0.7144 | 0.250                      | -0.5799 |
| 0.300                       | -0.7086 | 0.300                    | -0.7194 | 0.300                      | -0.5756 |
| 0.350                       | -0.6458 | 0.350                    | -0.6466 | 0.350                      | -0.5940 |
| 0.400                       | -0.5878 | 0.400                    | -0.6530 | 0.400                      | -0.5612 |
| 0.450                       | -0.5264 | 0.450                    | -0.5670 | 0.450                      | -0.5399 |
| 0.500                       | -0.5010 | 0.500                    | -0.5600 | 0.500                      | -0.4824 |
| 0.550                       | -0.4225 | 0.550                    | -0.5234 | 0.550                      | -0.4509 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3581 | 0.005 | 0.3759 | 0.005 | 0.2821  |
| 0.010 | 0.0875 | 0.010 | 0.0312 | 0.010 | -0.1338 |

Flight 21 Test point 13

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 35000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 171.2 Rnpu = 1666000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9473  | 0.000                    | 0.9925  | 0.000                      | 0.9898  |
| 0.005                       | -0.0037 | 0.005                    | 0.0551  | 0.005                      | 0.3722  |
| 0.010                       | -0.2866 | 0.010                    | -0.2139 | 0.010                      | 0.0512  |
| 0.020                       | -0.5420 | 0.020                    | -0.4721 | 0.020                      | -0.3026 |
| 0.040                       | -0.7081 | 0.040                    | -0.6258 | 0.040                      | -0.4597 |
| 0.060                       | -0.7408 | 0.060                    | -0.6413 | 0.060                      | -0.5357 |
| 0.080                       | -0.7467 | 0.080                    | -0.6586 | 0.080                      | -0.5520 |
| 0.100                       | -0.7500 | 0.100                    | -0.6632 | 0.100                      | -0.5605 |
| 0.125                       | -0.6666 | 0.125                    | -0.6569 | 0.125                      | -0.5598 |
| 0.150                       | -0.7679 | 0.150                    | -0.6917 | 0.150                      | -0.5868 |
| 0.175                       | -0.7396 | 0.175                    | -0.7282 | 0.175                      | -0.5962 |
| 0.200                       | -0.8004 | 0.200                    | -0.7380 | 0.200                      | -0.6032 |
| 0.250                       | -0.7800 | 0.250                    | -0.7782 | 0.250                      | -0.6329 |
| 0.300                       | -0.7467 | 0.300                    | -0.7599 | 0.300                      | -0.6298 |
| 0.350                       | -0.6724 | 0.350                    | -0.6618 | 0.350                      | -0.6284 |
| 0.400                       | -0.6108 | 0.400                    | -0.6720 | 0.400                      | -0.5922 |
| 0.450                       | -0.5362 | 0.450                    | -0.5849 | 0.450                      | -0.5509 |
| 0.500                       | -0.5116 | 0.500                    | -0.5686 | 0.500                      | -0.4980 |
| 0.550                       | -0.4273 | 0.550                    | -0.5320 | 0.550                      | -0.4650 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4978 | 0.005 | 0.5346 | 0.005 | 0.4473 |
| 0.010 | 0.2539 | 0.010 | 0.2210 | 0.010 | 0.0691 |

Flight 21 Test point 14

Sweep, deg = 34.9 Mach = 0.80 hp, ft = 34900. Angle of attack, deg = 2.9  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 224.4 RnpU = 1943000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.6501  | 0.000                    | 0.6597  | 0.000                      | 0.6621  |
| 0.005                       | -0.2946 | 0.005                    | -0.3221 | 0.005                      | -0.0725 |
| 0.010                       | -0.5109 | 0.010                    | -0.5335 | 0.010                      | -0.3621 |
| 0.020                       | -0.6996 | 0.020                    | -0.7331 | 0.020                      | -0.7163 |
| 0.040                       | -0.8227 | 0.040                    | -0.8752 | 0.040                      | -0.7763 |
| 0.060                       | -0.8719 | 0.060                    | -0.8818 | 0.060                      | -0.8333 |
| 0.080                       | -0.8929 | 0.080                    | -0.8781 | 0.080                      | -0.8157 |
| 0.100                       | -0.8355 | 0.100                    | -0.8789 | 0.100                      | -0.8739 |
| 0.125                       | -0.7236 | 0.125                    | -0.8539 | 0.125                      | -0.8459 |
| 0.150                       | -0.8259 | 0.150                    | -0.8467 | 0.150                      | -0.7841 |
| 0.175                       | -0.8123 | 0.175                    | -0.8434 | 0.175                      | -0.8220 |
| 0.200                       | -0.8939 | 0.200                    | -0.8251 | 0.200                      | -0.7851 |
| 0.250                       | -0.9397 | 0.250                    | -0.9241 | 0.250                      | -0.8304 |
| 0.300                       | -0.7952 | 0.300                    | -0.9582 | 0.300                      | -0.8426 |
| 0.350                       | -0.7549 | 0.350                    | -0.9546 | 0.350                      | -0.8861 |
| 0.400                       | -0.7675 | 0.400                    | -0.9766 | 0.400                      | -0.5977 |
| 0.450                       | -0.6043 | 0.450                    | -0.4751 | 0.450                      | -0.4063 |
| 0.500                       | -0.4473 | 0.500                    | -0.4402 | 0.500                      | -0.3866 |
| 0.550                       | -0.3825 | 0.550                    | -0.4263 | 0.550                      | -0.3877 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5217 | 0.005 | 0.5759 | 0.005 | 0.5559 |
| 0.010 | 0.3615 | 0.010 | 0.3834 | 0.010 | 0.3408 |

Fight 21 Test point 15

Sweep, deg = 34.9 Mach = 0.80 hp, ft = 34600. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.4 QBAR, lb/ft<sup>2</sup> = 229.1 Rnpu = 1976000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7156  | 0.000                    | 0.7618  | 0.000                      | 0.7503  |
| 0.005                       | 0.1723  | 0.005                    | 0.1793  | 0.005                      | 0.3798  |
| 0.010                       | -0.0343 | 0.010                    | -0.0102 | 0.010                      | 0.1537  |
| 0.020                       | -0.2335 | 0.020                    | -0.2232 | 0.020                      | -0.1117 |
| 0.040                       | -0.3827 | 0.040                    | -0.3605 | 0.040                      | -0.2687 |
| 0.060                       | -0.4207 | 0.060                    | -0.3979 | 0.060                      | -0.3404 |
| 0.080                       | -0.4680 | 0.080                    | -0.4323 | 0.080                      | -0.3711 |
| 0.100                       | -0.5114 | 0.100                    | -0.4478 | 0.100                      | -0.3915 |
| 0.125                       | -0.4517 | 0.125                    | -0.4489 | 0.125                      | -0.4047 |
| 0.150                       | -0.5146 | 0.150                    | -0.4952 | 0.150                      | -0.4301 |
| 0.175                       | -0.5536 | 0.175                    | -0.5244 | 0.175                      | -0.4721 |
| 0.200                       | -0.5708 | 0.200                    | -0.5407 | 0.200                      | -0.4495 |
| 0.250                       | -0.6065 | 0.250                    | -0.6103 | 0.250                      | -0.5185 |
| 0.300                       | -0.6187 | 0.300                    | -0.6353 | 0.300                      | -0.4710 |
| 0.350                       | -0.5838 | 0.350                    | -0.5306 | 0.350                      | -0.5105 |
| 0.400                       | -0.5269 | 0.400                    | -0.5430 | 0.400                      | -0.4829 |
| 0.450                       | -0.4468 | 0.450                    | -0.4919 | 0.450                      | -0.4521 |
| 0.500                       | -0.4248 | 0.500                    | -0.4648 | 0.500                      | -0.4025 |
| 0.550                       | -0.3620 | 0.550                    | -0.4416 | 0.550                      | -0.3888 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.1934  | 0.005 | 0.2399  | 0.005 | 0.1881  |
| 0.010 | -0.0291 | 0.010 | -0.0260 | 0.010 | -0.1329 |

Fight 21 Test point 16

Sweep, deg = 34.9 Mach = 0.80 hp, ft = 35300. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 218.7 Rnpu = 1903000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7139  | 0.000                    | 0.7495  | 0.000                      | 0.7436  |
| 0.005                       | 0.0413  | 0.005                    | 0.0381  | 0.005                      | 0.2633  |
| 0.010                       | -0.1747 | 0.010                    | -0.1604 | 0.010                      | 0.0132  |
| 0.020                       | -0.3697 | 0.020                    | -0.3620 | 0.020                      | -0.2605 |
| 0.040                       | -0.5065 | 0.040                    | -0.4967 | 0.040                      | -0.3972 |
| 0.060                       | -0.5074 | 0.060                    | -0.5195 | 0.060                      | -0.4763 |
| 0.080                       | -0.5428 | 0.080                    | -0.5270 | 0.080                      | -0.4766 |
| 0.100                       | -0.6057 | 0.100                    | -0.5261 | 0.100                      | -0.4857 |
| 0.125                       | -0.5287 | 0.125                    | -0.5579 | 0.125                      | -0.5115 |
| 0.150                       | -0.5830 | 0.150                    | -0.5737 | 0.150                      | -0.5054 |
| 0.175                       | -0.5937 | 0.175                    | -0.6093 | 0.175                      | -0.5405 |
| 0.200                       | -0.6553 | 0.200                    | -0.6165 | 0.200                      | -0.5373 |
| 0.250                       | -0.6538 | 0.250                    | -0.6936 | 0.250                      | -0.5518 |
| 0.300                       | -0.6611 | 0.300                    | -0.6744 | 0.300                      | -0.6390 |
| 0.350                       | -0.6315 | 0.350                    | -0.5632 | 0.350                      | -0.5177 |
| 0.400                       | -0.5653 | 0.400                    | -0.5517 | 0.400                      | -0.5085 |
| 0.450                       | -0.4633 | 0.450                    | -0.5091 | 0.450                      | -0.4734 |
| 0.500                       | -0.4370 | 0.500                    | -0.4820 | 0.500                      | -0.4180 |
| 0.550                       | -0.3785 | 0.550                    | -0.4458 | 0.550                      | -0.3985 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3084 | 0.005 | 0.3553 | 0.005 | 0.3170 |
| 0.010 | 0.1096 | 0.010 | 0.1111 | 0.010 | 0.0247 |

Fight 21 Test point 17

Sweep, deg = 30.0 Mach = 0.80 hp, ft = 34900. Angle of attack, deg = 2.2  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 224.7 Rnpu = 1944000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7956  | 0.000                    | 0.8242  | 0.000                      | 0.8186  |
| 0.005                       | -0.0775 | 0.005                    | -0.0684 | 0.005                      | 0.1819  |
| 0.010                       | -0.3208 | 0.010                    | -0.2971 | 0.010                      | -0.1087 |
| 0.020                       | -0.5477 | 0.020                    | -0.5329 | 0.020                      | -0.4442 |
| 0.040                       | -0.7242 | 0.040                    | -0.6896 | 0.040                      | -0.5873 |
| 0.060                       | -0.7673 | 0.060                    | -0.7110 | 0.060                      | -0.6909 |
| 0.080                       | -0.7807 | 0.080                    | -0.7382 | 0.080                      | -0.6590 |
| 0.100                       | -0.7653 | 0.100                    | -0.7692 | 0.100                      | -0.7847 |
| 0.125                       | -0.6901 | 0.125                    | -0.7684 | 0.125                      | -0.7187 |
| 0.150                       | -0.7855 | 0.150                    | -0.7709 | 0.150                      | -0.6769 |
| 0.175                       | -0.7852 | 0.175                    | -0.7999 | 0.175                      | -0.7521 |
| 0.200                       | -0.8570 | 0.200                    | -0.7991 | 0.200                      | -0.7240 |
| 0.250                       | -0.9206 | 0.250                    | -0.8885 | 0.250                      | -0.8101 |
| 0.300                       | -0.9830 | 0.300                    | -0.9426 | 0.300                      | -0.8474 |
| 0.350                       | -0.9459 | 0.350                    | -0.9765 | 0.350                      | -0.9024 |
| 0.400                       | -0.8635 | 0.400                    | -1.0274 | 0.400                      | -0.9511 |
| 0.450                       | -0.7523 | 0.450                    | -1.0385 | 0.450                      | -0.9859 |
| 0.500                       | -0.5832 | 0.500                    | -1.0368 | 0.500                      | -0.9608 |
| 0.550                       | -0.3858 | 0.550                    | -0.4410 | 0.550                      | -0.4021 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.5011 | 0.005 | 0.5401 | 0.005 | 0.5039 |
| 0.010         | 0.2967 | 0.010 | 0.2945 | 0.010 | 0.2198 |

Flight 21 Test point 18

Sweep, deg = 29.7 Mach = 0.81 hp, ft = 34600. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 230.8 Rnpu = 1980000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8253  | 0.000                    | 0.8651  | 0.000                      | 0.8515  |
| 0.005                       | 0.2016  | 0.005                    | 0.2263  | 0.005                      | 0.4361  |
| 0.010                       | -0.0286 | 0.010                    | 0.0171  | 0.010                      | 0.1841  |
| 0.020                       | -0.2522 | 0.020                    | -0.2279 | 0.020                      | -0.1202 |
| 0.040                       | -0.4339 | 0.040                    | -0.3894 | 0.040                      | -0.2906 |
| 0.060                       | -0.4838 | 0.060                    | -0.4429 | 0.060                      | -0.3914 |
| 0.080                       | -0.5077 | 0.080                    | -0.4810 | 0.080                      | -0.4271 |
| 0.100                       | -0.5485 | 0.100                    | -0.5052 | 0.100                      | -0.4464 |
| 0.125                       | -0.6012 | 0.125                    | -0.5162 | 0.125                      | -0.4722 |
| 0.150                       | -0.5753 | 0.150                    | -0.5478 | 0.150                      | -0.5274 |
| 0.175                       | -0.6270 | 0.175                    | -0.6132 | 0.175                      | -0.5525 |
| 0.200                       | -0.6709 | 0.200                    | -0.6245 | 0.200                      | -0.5593 |
| 0.250                       | -0.6830 | 0.250                    | -0.7278 | 0.250                      | -0.6182 |
| 0.300                       | -0.7382 | 0.300                    | -0.7680 | 0.300                      | -0.6493 |
| 0.350                       | -0.7340 | 0.350                    | -0.7947 | 0.350                      | -0.7345 |
| 0.400                       | -0.7165 | 0.400                    | -0.8643 | 0.400                      | -0.7877 |
| 0.450                       | -0.6859 | 0.450                    | -0.8148 | 0.450                      | -0.4988 |
| 0.500                       | -0.4443 | 0.500                    | -0.4427 | 0.500                      | -0.3851 |
| 0.550                       | -0.3853 | 0.550                    | -0.4485 | 0.550                      | -0.3991 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.2774 | 0.005 | 0.3044 | 0.005 | 0.2538  |
| 0.010 | 0.0393 | 0.010 | 0.0135 | 0.010 | -0.1001 |

Fight 21 Test point 19

Sweep, deg = 29.7 Mach = 0.80 hp, ft = 34900. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 224.2 Rnpu = 1942000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8146  | 0.000                    | 0.8507  | 0.000                      | 0.8429  |
| 0.005                       | 0.0558  | 0.005                    | 0.0665  | 0.005                      | 0.3069  |
| 0.010                       | -0.1818 | 0.010                    | -0.1555 | 0.010                      | 0.0317  |
| 0.020                       | -0.4052 | 0.020                    | -0.3889 | 0.020                      | -0.2874 |
| 0.040                       | -0.6256 | 0.040                    | -0.5548 | 0.040                      | -0.4376 |
| 0.060                       | -0.6097 | 0.060                    | -0.5856 | 0.060                      | -0.5214 |
| 0.080                       | -0.6500 | 0.080                    | -0.6227 | 0.080                      | -0.6119 |
| 0.100                       | -0.6141 | 0.100                    | -0.6428 | 0.100                      | -0.5980 |
| 0.125                       | -0.6538 | 0.125                    | -0.6121 | 0.125                      | -0.5176 |
| 0.150                       | -0.6955 | 0.150                    | -0.6405 | 0.150                      | -0.6338 |
| 0.175                       | -0.7132 | 0.175                    | -0.6950 | 0.175                      | -0.6709 |
| 0.200                       | -0.7789 | 0.200                    | -0.7279 | 0.200                      | -0.6701 |
| 0.250                       | -0.8359 | 0.250                    | -0.8166 | 0.250                      | -0.7328 |
| 0.300                       | -0.8676 | 0.300                    | -0.8521 | 0.300                      | -0.7530 |
| 0.350                       | -0.7414 | 0.350                    | -0.8864 | 0.350                      | -0.8120 |
| 0.400                       | -0.7609 | 0.400                    | -0.9482 | 0.400                      | -0.8530 |
| 0.450                       | -0.7463 | 0.450                    | -0.9368 | 0.450                      | -0.8339 |
| 0.500                       | -0.4668 | 0.500                    | -0.4603 | 0.500                      | -0.3695 |
| 0.550                       | -0.3959 | 0.550                    | -0.4277 | 0.550                      | -0.3875 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3992 | 0.005 | 0.4365 | 0.005 | 0.3920 |
| 0.010 | 0.1738 | 0.010 | 0.1665 | 0.010 | 0.0745 |



Flight 21 Test point 20

Sweep, deg = 24.9 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 223.2 Rnpu = 1936000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8987  | 0.000                    | 0.9354  | 0.000                      | 0.9275  |
| 0.005                       | 0.0451  | 0.005                    | 0.0820  | 0.005                      | 0.3326  |
| 0.010                       | -0.2120 | 0.010                    | -0.1670 | 0.010                      | 0.0414  |
| 0.020                       | -0.4551 | 0.020                    | -0.4221 | 0.020                      | -0.3073 |
| 0.040                       | -0.6753 | 0.040                    | -0.5886 | 0.040                      | -0.4755 |
| 0.060                       | -0.7197 | 0.060                    | -0.6389 | 0.060                      | -0.5675 |
| 0.080                       | -0.7401 | 0.080                    | -0.6782 | 0.080                      | -0.6106 |
| 0.100                       | -0.7564 | 0.100                    | -0.7156 | 0.100                      | -0.7219 |
| 0.125                       | -0.6716 | 0.125                    | -0.7176 | 0.125                      | -0.6447 |
| 0.150                       | -0.8138 | 0.150                    | -0.7340 | 0.150                      | -0.6094 |
| 0.175                       | -0.7869 | 0.175                    | -0.7704 | 0.175                      | -0.7097 |
| 0.200                       | -0.8629 | 0.200                    | -0.7903 | 0.200                      | -0.7016 |
| 0.250                       | -0.9583 | 0.250                    | -0.8853 | 0.250                      | -0.7943 |
| 0.300                       | -0.9933 | 0.300                    | -0.9370 | 0.300                      | -0.8351 |
| 0.350                       | -0.9965 | 0.350                    | -0.9777 | 0.350                      | -0.9088 |
| 0.400                       | -0.9850 | 0.400                    | -1.0322 | 0.400                      | -0.9590 |
| 0.450                       | -0.9923 | 0.450                    | -1.0746 | 0.450                      | -1.0120 |
| 0.500                       | -1.0490 | 0.500                    | -1.1156 | 0.500                      | -1.0202 |
| 0.550                       | -0.4413 | 0.550                    | -0.4874 | 0.550                      | -0.4545 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5076 | 0.005 | 0.5280 | 0.005 | 0.4790 |
| 0.010 | 0.2819 | 0.010 | 0.2495 | 0.010 | 0.1509 |

Flight 21 Test point 21

Sweep, deg = 24.9 Mach = 0.80 hp, ft = 34700. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 226.4 Rnpu = 1960000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9125  | 0.000                    | 0.9527  | 0.000                      | 0.9363  |
| 0.005                       | 0.2375  | 0.005                    | 0.2737  | 0.005                      | 0.4985  |
| 0.010                       | -0.0164 | 0.010                    | 0.0410  | 0.010                      | 0.2267  |
| 0.020                       | -0.2518 | 0.020                    | -0.2194 | 0.020                      | -0.0953 |
| 0.040                       | -0.4593 | 0.040                    | -0.4053 | 0.040                      | -0.2862 |
| 0.060                       | -0.5372 | 0.060                    | -0.4611 | 0.060                      | -0.4032 |
| 0.080                       | -0.5553 | 0.080                    | -0.5073 | 0.080                      | -0.4442 |
| 0.100                       | -0.5604 | 0.100                    | -0.5372 | 0.100                      | -0.4647 |
| 0.125                       | -0.6215 | 0.125                    | -0.5418 | 0.125                      | -0.4844 |
| 0.150                       | -0.6596 | 0.150                    | -0.5716 | 0.150                      | -0.5756 |
| 0.175                       | -0.6554 | 0.175                    | -0.6422 | 0.175                      | -0.5644 |
| 0.200                       | -0.7469 | 0.200                    | -0.6843 | 0.200                      | -0.5878 |
| 0.250                       | -0.8325 | 0.250                    | -0.7916 | 0.250                      | -0.6736 |
| 0.300                       | -0.8860 | 0.300                    | -0.8397 | 0.300                      | -0.7209 |
| 0.350                       | -0.8761 | 0.350                    | -0.8782 | 0.350                      | -0.7978 |
| 0.400                       | -0.8729 | 0.400                    | -0.9553 | 0.400                      | -0.8440 |
| 0.450                       | -0.7216 | 0.450                    | -0.9655 | 0.450                      | -0.8808 |
| 0.500                       | -0.7369 | 0.500                    | -1.0134 | 0.500                      | -0.9114 |
| 0.550                       | -0.3913 | 0.550                    | -0.5407 | 0.550                      | -0.4672 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3424 | 0.005 | 0.3553 | 0.005 | 0.3009  |
| 0.010 | 0.0876 | 0.010 | 0.0439 | 0.010 | -0.0800 |

Flight 21 Test point 22

Sweep, deg = 24.9 Mach = 0.80 hp, ft = 35100. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 218.6 Rnpu = 1903000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9047  | 0.000                    | 0.9412  | 0.000                      | 0.9346  |
| 0.005                       | 0.1049  | 0.005                    | 0.1425  | 0.005                      | 0.3882  |
| 0.010                       | -0.1524 | 0.010                    | -0.0984 | 0.010                      | 0.0969  |
| 0.020                       | -0.3917 | 0.020                    | -0.3588 | 0.020                      | -0.2286 |
| 0.040                       | -0.6443 | 0.040                    | -0.5401 | 0.040                      | -0.4090 |
| 0.060                       | -0.6386 | 0.060                    | -0.5873 | 0.060                      | -0.5167 |
| 0.080                       | -0.7050 | 0.080                    | -0.6257 | 0.080                      | -0.5914 |
| 0.100                       | -0.6896 | 0.100                    | -0.6649 | 0.100                      | -0.6192 |
| 0.125                       | -0.6460 | 0.125                    | -0.6562 | 0.125                      | -0.5340 |
| 0.150                       | -0.7506 | 0.150                    | -0.6684 | 0.150                      | -0.6229 |
| 0.175                       | -0.7577 | 0.175                    | -0.7086 | 0.175                      | -0.6914 |
| 0.200                       | -0.8275 | 0.200                    | -0.7412 | 0.200                      | -0.6726 |
| 0.250                       | -0.9106 | 0.250                    | -0.8620 | 0.250                      | -0.7597 |
| 0.300                       | -0.9580 | 0.300                    | -0.9195 | 0.300                      | -0.8004 |
| 0.350                       | -0.9534 | 0.350                    | -0.9526 | 0.350                      | -0.8664 |
| 0.400                       | -0.9654 | 0.400                    | -1.0181 | 0.400                      | -0.9226 |
| 0.450                       | -0.9504 | 0.450                    | -1.0343 | 0.450                      | -0.9628 |
| 0.500                       | -0.5840 | 0.500                    | -1.0862 | 0.500                      | -0.9735 |
| 0.550                       | -0.3947 | 0.550                    | -0.5418 | 0.550                      | -0.4923 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4525 | 0.005 | 0.4739 | 0.005 | 0.4154 |
| 0.010 | 0.2147 | 0.010 | 0.1841 | 0.010 | 0.0721 |

Flight 21 Test point 23

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 224.6 Rho = 1940000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9814  | 0.000                    | 1.0274  | 0.000                      | 1.0168  |
| 0.005                       | 0.1778  | 0.005                    | 0.2296  | 0.005                      | 0.4811  |
| 0.010                       | -0.0899 | 0.010                    | -0.0235 | 0.010                      | 0.1874  |
| 0.020                       | -0.3492 | 0.020                    | -0.2986 | 0.020                      | -0.1643 |
| 0.040                       | -0.6106 | 0.040                    | -0.4922 | 0.040                      | -0.3547 |
| 0.060                       | -0.6466 | 0.060                    | -0.5475 | 0.060                      | -0.4697 |
| 0.080                       | -0.6920 | 0.080                    | -0.5988 | 0.080                      | -0.5386 |
| 0.100                       | -0.6934 | 0.100                    | -0.6390 | 0.100                      | -0.6078 |
| 0.125                       | -0.6297 | 0.125                    | -0.6474 | 0.125                      | -0.5022 |
| 0.150                       | -0.7952 | 0.150                    | -0.6588 | 0.150                      | -0.5872 |
| 0.175                       | -0.7649 | 0.175                    | -0.7056 | 0.175                      | -0.6598 |
| 0.200                       | -0.8420 | 0.200                    | -0.7373 | 0.200                      | -0.6692 |
| 0.250                       | -0.9322 | 0.250                    | -0.8394 | 0.250                      | -0.7450 |
| 0.300                       | -0.9978 | 0.300                    | -0.9108 | 0.300                      | -0.7974 |
| 0.350                       | -1.0158 | 0.350                    | -0.9584 | 0.350                      | -0.8699 |
| 0.400                       | -1.0072 | 0.400                    | -1.0403 | 0.400                      | -0.9152 |
| 0.450                       | -1.0110 | 0.450                    | -1.0702 | 0.450                      | -0.9823 |
| 0.500                       | -1.0889 | 0.500                    | -1.1154 | 0.500                      | -0.9963 |
| 0.550                       | -0.4571 | 0.550                    | -0.4742 | 0.550                      | -0.8477 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4940 | 0.005 | 0.4976 | 0.005 | 0.4399 |
| 0.010 | 0.2421 | 0.010 | 0.1835 | 0.010 | 0.0637 |

Flight 21 Test point 24

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 34900. Angle of attack, deg = 2.1  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 223.9 Rnpu = 1937000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0414  | 0.000                    | 1.0883  | 0.000                      | 1.0758  |
| 0.005                       | 0.1957  | 0.005                    | 0.2685  | 0.005                      | 0.5319  |
| 0.010                       | -0.0819 | 0.010                    | 0.0027  | 0.010                      | 0.2323  |
| 0.020                       | -0.3449 | 0.020                    | -0.2696 | 0.020                      | -0.1336 |
| 0.040                       | -0.5931 | 0.040                    | -0.4755 | 0.040                      | -0.3210 |
| 0.060                       | -0.6451 | 0.060                    | -0.5351 | 0.060                      | -0.4432 |
| 0.080                       | -0.6838 | 0.080                    | -0.5892 | 0.080                      | -0.5072 |
| 0.100                       | -0.7124 | 0.100                    | -0.6295 | 0.100                      | -0.5698 |
| 0.125                       | -0.6629 | 0.125                    | -0.6394 | 0.125                      | -0.5030 |
| 0.150                       | -0.7858 | 0.150                    | -0.6510 | 0.150                      | -0.5663 |
| 0.175                       | -0.7691 | 0.175                    | -0.7014 | 0.175                      | -0.6417 |
| 0.200                       | -0.8499 | 0.200                    | -0.7411 | 0.200                      | -0.6521 |
| 0.250                       | -0.9505 | 0.250                    | -0.8463 | 0.250                      | -0.7242 |
| 0.300                       | -1.0282 | 0.300                    | -0.9097 | 0.300                      | -0.7801 |
| 0.350                       | -1.0298 | 0.350                    | -0.9562 | 0.350                      | -0.8644 |
| 0.400                       | -1.0473 | 0.400                    | -1.0424 | 0.400                      | -0.8970 |
| 0.450                       | -0.9985 | 0.450                    | -1.0618 | 0.450                      | -0.9710 |
| 0.500                       | -0.5649 | 0.500                    | -1.1043 | 0.500                      | -0.9632 |
| 0.550                       | -0.4436 | 0.550                    | -0.4853 | 0.550                      | -0.0197 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5539 | 0.005 | 0.5472 | 0.005 | 0.4786 |
| 0.010 | 0.2969 | 0.010 | 0.2231 | 0.010 | 0.0840 |

Flight 21 Test point 25

Sweep, deg = 20.1 Mach = 0.81 hp, ft = 34600. Angle of attack, deg = 2.1  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 230.6 Rnpu = 1980000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9805  | 0.000                    | 1.0174  | 0.000                      | 1.0091  |
| 0.005                       | 0.1303  | 0.005                    | 0.1845  | 0.005                      | 0.4370  |
| 0.010                       | -0.1479 | 0.010                    | -0.0768 | 0.010                      | 0.1352  |
| 0.020                       | -0.3911 | 0.020                    | -0.3612 | 0.020                      | -0.2132 |
| 0.040                       | -0.6240 | 0.040                    | -0.5398 | 0.040                      | -0.4042 |
| 0.060                       | -0.6777 | 0.060                    | -0.5781 | 0.060                      | -0.4961 |
| 0.080                       | -0.7112 | 0.080                    | -0.6432 | 0.080                      | -0.5654 |
| 0.100                       | -0.7414 | 0.100                    | -0.6834 | 0.100                      | -0.6513 |
| 0.125                       | -0.6813 | 0.125                    | -0.6886 | 0.125                      | -0.6082 |
| 0.150                       | -0.8137 | 0.150                    | -0.7173 | 0.150                      | -0.5598 |
| 0.175                       | -0.7916 | 0.175                    | -0.7557 | 0.175                      | -0.6734 |
| 0.200                       | -0.8622 | 0.200                    | -0.7662 | 0.200                      | -0.6878 |
| 0.250                       | -0.9545 | 0.250                    | -0.8565 | 0.250                      | -0.7727 |
| 0.300                       | -1.0330 | 0.300                    | -0.9348 | 0.300                      | -0.7990 |
| 0.350                       | -1.0470 | 0.350                    | -0.9766 | 0.350                      | -0.8975 |
| 0.400                       | -1.0404 | 0.400                    | -1.0617 | 0.400                      | -0.9341 |
| 0.450                       | -1.0604 | 0.450                    | -1.0879 | 0.450                      | -1.0066 |
| 0.500                       | -0.5901 | 0.500                    | -0.9979 | 0.500                      | -1.0184 |
| 0.550                       | -0.4480 | 0.550                    | -0.4459 | 0.550                      | -0.6170 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.5347 | 0.005 | 0.5483 | 0.005 | 0.4835 |
| 0.010         | 0.2946 | 0.010 | 0.2352 | 0.010 | 0.1164 |

Flight 21 Test point 26

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 351.5 Rnpu = 2830000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9824  | 0.000                    | 1.0187  | 0.000                      | 1.0021  |
| 0.005                       | 0.3830  | 0.005                    | 0.4333  | 0.005                      | 0.6414  |
| 0.010                       | 0.1201  | 0.010                    | 0.1878  | 0.010                      | 0.3850  |
| 0.020                       | -0.1386 | 0.020                    | -0.0834 | 0.020                      | 0.0450  |
| 0.040                       | -0.3600 | 0.040                    | -0.2853 | 0.040                      | -0.1604 |
| 0.060                       | -0.4405 | 0.060                    | -0.3641 | 0.060                      | -0.2851 |
| 0.080                       | -0.4879 | 0.080                    | -0.4230 | 0.080                      | -0.3476 |
| 0.100                       | -0.5217 | 0.100                    | -0.4526 | 0.100                      | -0.3840 |
| 0.125                       | -0.5769 | 0.125                    | -0.4774 | 0.125                      | -0.4174 |
| 0.150                       | -0.6243 | 0.150                    | -0.5267 | 0.150                      | -0.4710 |
| 0.175                       | -0.6159 | 0.175                    | -0.5920 | 0.175                      | -0.5071 |
| 0.200                       | -0.7035 | 0.200                    | -0.6394 | 0.200                      | -0.5393 |
| 0.250                       | -0.7993 | 0.250                    | -0.7388 | 0.250                      | -0.6247 |
| 0.300                       | -0.8588 | 0.300                    | -0.8004 | 0.300                      | -0.6956 |
| 0.350                       | -0.8792 | 0.350                    | -0.8515 | 0.350                      | -0.7550 |
| 0.400                       | -0.9146 | 0.400                    | -0.9310 | 0.400                      | -0.8267 |
| 0.450                       | -0.9212 | 0.450                    | -0.9551 | 0.450                      | -0.8606 |
| 0.500                       | -0.9854 | 0.500                    | -1.0099 | 0.500                      | -0.8968 |
| 0.550                       | -0.4246 | 0.550                    | -0.9735 | 0.550                      | -0.9170 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2929 | 0.005 | 0.2838  | 0.005 | 0.2136  |
| 0.010 | 0.0103 | 0.010 | -0.0670 | 0.010 | -0.2107 |

Flight 21 Test point 27

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 24900. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 354.0 Rnpu = 2835000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0474  | 0.000                    | 1.0869  | 0.000                      | 1.0661  |
| 0.005                       | 0.4291  | 0.005                    | 0.4976  | 0.005                      | 0.7139  |
| 0.010                       | 0.1558  | 0.010                    | 0.2453  | 0.010                      | 0.4467  |
| 0.020                       | -0.1079 | 0.020                    | -0.0321 | 0.020                      | 0.1045  |
| 0.040                       | -0.3385 | 0.040                    | -0.2424 | 0.040                      | -0.1079 |
| 0.060                       | -0.4250 | 0.060                    | -0.3257 | 0.060                      | -0.2393 |
| 0.080                       | -0.4750 | 0.080                    | -0.3885 | 0.080                      | -0.3009 |
| 0.100                       | -0.5068 | 0.100                    | -0.4244 | 0.100                      | -0.3416 |
| 0.125                       | -0.5467 | 0.125                    | -0.4487 | 0.125                      | -0.3759 |
| 0.150                       | -0.6408 | 0.150                    | -0.5015 | 0.150                      | -0.4300 |
| 0.175                       | -0.6084 | 0.175                    | -0.5688 | 0.175                      | -0.4727 |
| 0.200                       | -0.6844 | 0.200                    | -0.6162 | 0.200                      | -0.4996 |
| 0.250                       | -0.8164 | 0.250                    | -0.7213 | 0.250                      | -0.5927 |
| 0.300                       | -0.8810 | 0.300                    | -0.7898 | 0.300                      | -0.6721 |
| 0.350                       | -0.9076 | 0.350                    | -0.8410 | 0.350                      | -0.7217 |
| 0.400                       | -0.9186 | 0.400                    | -0.9200 | 0.400                      | -0.7977 |
| 0.450                       | -0.9519 | 0.450                    | -0.9449 | 0.450                      | -0.8440 |
| 0.500                       | -1.0147 | 0.500                    | -1.0027 | 0.500                      | -0.8595 |
| 0.550                       | -0.5483 | 0.550                    | -0.9402 | 0.550                      | -0.8618 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3410 | 0.005 | 0.3188  | 0.005 | 0.2452  |
| 0.010 | 0.0497 | 0.010 | -0.0432 | 0.010 | -0.1947 |



Flight 21 Test point 28

Sweep, deg = 20.0 Mach = 0.81 hp, ft = 25200. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 353.3 Rrho = 2836000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9924  | 0.000                    | 1.0262  | 0.000                      | 1.0112  |
| 0.005                       | 0.2940  | 0.005                    | 0.3514  | 0.005                      | 0.5800  |
| 0.010                       | 0.0242  | 0.010                    | 0.0953  | 0.010                      | 0.3061  |
| 0.020                       | -0.2306 | 0.020                    | -0.1728 | 0.020                      | -0.0434 |
| 0.040                       | -0.4523 | 0.040                    | -0.3713 | 0.040                      | -0.2414 |
| 0.060                       | -0.5277 | 0.060                    | -0.4440 | 0.060                      | -0.3618 |
| 0.080                       | -0.5616 | 0.080                    | -0.5016 | 0.080                      | -0.4236 |
| 0.100                       | -0.6068 | 0.100                    | -0.5408 | 0.100                      | -0.4471 |
| 0.125                       | -0.5930 | 0.125                    | -0.5350 | 0.125                      | -0.4591 |
| 0.150                       | -0.7066 | 0.150                    | -0.5904 | 0.150                      | -0.5481 |
| 0.175                       | -0.7027 | 0.175                    | -0.6406 | 0.175                      | -0.5972 |
| 0.200                       | -0.7683 | 0.200                    | -0.6789 | 0.200                      | -0.5736 |
| 0.250                       | -0.8721 | 0.250                    | -0.7840 | 0.250                      | -0.6809 |
| 0.300                       | -0.9202 | 0.300                    | -0.8554 | 0.300                      | -0.7360 |
| 0.350                       | -0.9421 | 0.350                    | -0.9039 | 0.350                      | -0.8039 |
| 0.400                       | -0.9479 | 0.400                    | -0.9777 | 0.400                      | -0.8803 |
| 0.450                       | -0.9538 | 0.450                    | -1.0039 | 0.450                      | -0.9291 |
| 0.500                       | -1.0571 | 0.500                    | -1.0558 | 0.500                      | -0.9427 |
| 0.550                       | -0.5453 | 0.550                    | -0.5625 | 0.550                      | -0.9591 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3919 | 0.005 | 0.3832 | 0.005 | 0.3089  |
| 0.010 | 0.1220 | 0.010 | 0.0494 | 0.010 | -0.0938 |

Flight 21 Test point 29

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 354.6 Rrho = 2850000.

Upper surface

| BL 200<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|---------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                       | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                     | 0.9808  | 0.000                    | 1.0147  | 0.000                      | 1.0088  |
| 0.005                     | 0.1451  | 0.005                    | 0.2029  | 0.005                      | 0.4597  |
| 0.010                     | -0.1296 | 0.010                    | -0.0604 | 0.010                      | 0.1645  |
| 0.020                     | -0.3874 | 0.020                    | -0.3304 | 0.020                      | -0.2015 |
| 0.040                     | -0.6213 | 0.040                    | -0.5231 | 0.040                      | -0.3843 |
| 0.060                     | -0.6715 | 0.060                    | -0.5763 | 0.060                      | -0.4894 |
| 0.080                     | -0.7000 | 0.080                    | -0.6322 | 0.080                      | -0.5607 |
| 0.100                     | -0.7390 | 0.100                    | -0.6695 | 0.100                      | -0.6545 |
| 0.125                     | -0.6633 | 0.125                    | -0.6901 | 0.125                      | -0.5666 |
| 0.150                     | -0.8249 | 0.150                    | -0.7108 | 0.150                      | -0.5600 |
| 0.175                     | -0.7952 | 0.175                    | -0.7545 | 0.175                      | -0.6811 |
| 0.200                     | -0.8565 | 0.200                    | -0.7709 | 0.200                      | -0.6819 |
| 0.250                     | -0.9574 | 0.250                    | -0.8613 | 0.250                      | -0.7642 |
| 0.300                     | -1.0289 | 0.300                    | -0.9183 | 0.300                      | -0.8078 |
| 0.350                     | -1.0401 | 0.350                    | -0.9749 | 0.350                      | -0.8864 |
| 0.400                     | -1.0464 | 0.400                    | -1.0525 | 0.400                      | -0.9288 |
| 0.450                     | -1.0696 | 0.450                    | -1.0854 | 0.450                      | -1.0039 |
| 0.500                     | -0.6835 | 0.500                    | -1.0343 | 0.500                      | -1.0176 |
| 0.550                     | -0.4702 | 0.550                    | -0.4556 | 0.550                      | -0.6311 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5241 | 0.005 | 0.5146 | 0.005 | 0.4516 |
| 0.010 | 0.2722 | 0.010 | 0.2102 | 0.010 | 0.0842 |

Fight 21 Test point 30

Sweep, deg = 25.0 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 354.1 Rnpu = 2849000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9059  | 0.000                    | 0.9436  | 0.000                      | 0.9290  |
| 0.005                       | 0.2860  | 0.005                    | 0.3275  | 0.005                      | 0.5423  |
| 0.010                       | 0.0374  | 0.010                    | 0.0924  | 0.010                      | 0.2877  |
| 0.020                       | -0.2074 | 0.020                    | -0.1619 | 0.020                      | -0.0417 |
| 0.040                       | -0.4064 | 0.040                    | -0.3498 | 0.040                      | -0.2317 |
| 0.060                       | -0.4771 | 0.060                    | -0.4144 | 0.060                      | -0.3489 |
| 0.080                       | -0.5026 | 0.080                    | -0.4677 | 0.080                      | -0.4009 |
| 0.100                       | -0.5366 | 0.100                    | -0.4852 | 0.100                      | -0.4230 |
| 0.125                       | -0.6014 | 0.125                    | -0.4991 | 0.125                      | -0.4524 |
| 0.150                       | -0.6298 | 0.150                    | -0.5431 | 0.150                      | -0.5239 |
| 0.175                       | -0.6313 | 0.175                    | -0.6097 | 0.175                      | -0.5324 |
| 0.200                       | -0.7071 | 0.200                    | -0.6423 | 0.200                      | -0.5561 |
| 0.250                       | -0.7765 | 0.250                    | -0.7417 | 0.250                      | -0.6428 |
| 0.300                       | -0.8501 | 0.300                    | -0.8044 | 0.300                      | -0.6935 |
| 0.350                       | -0.8478 | 0.350                    | -0.8539 | 0.350                      | -0.7690 |
| 0.400                       | -0.8402 | 0.400                    | -0.9227 | 0.400                      | -0.8142 |
| 0.450                       | -0.7348 | 0.450                    | -0.9404 | 0.450                      | -0.8649 |
| 0.500                       | -0.7981 | 0.500                    | -0.9844 | 0.500                      | -0.9068 |
| 0.550                       | -0.3969 | 0.550                    | -0.5324 | 0.550                      | -0.5142 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2949 | 0.005 | 0.2942  | 0.005 | 0.2311  |
| 0.010 | 0.0305 | 0.010 | -0.0243 | 0.010 | -0.1572 |

Flight 21 Test point 31

Sweep, deg = 25.0 Mach = 0.80 hp, ft = 25100. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 351.0 Rrho = 2830000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9089  | 0.000                    | 0.9397  | 0.000                      | 0.9287  |
| 0.005                       | 0.2069  | 0.005                    | 0.2479  | 0.005                      | 0.4775  |
| 0.010                       | -0.0471 | 0.010                    | 0.0012  | 0.010                      | 0.2059  |
| 0.020                       | -0.2921 | 0.020                    | -0.2497 | 0.020                      | -0.1308 |
| 0.040                       | -0.4937 | 0.040                    | -0.4344 | 0.040                      | -0.3087 |
| 0.060                       | -0.5626 | 0.060                    | -0.4948 | 0.060                      | -0.4201 |
| 0.080                       | -0.5720 | 0.080                    | -0.5460 | 0.080                      | -0.4896 |
| 0.100                       | -0.5376 | 0.100                    | -0.5679 | 0.100                      | -0.4792 |
| 0.125                       | -0.6252 | 0.125                    | -0.5603 | 0.125                      | -0.4970 |
| 0.150                       | -0.6981 | 0.150                    | -0.5913 | 0.150                      | -0.5884 |
| 0.175                       | -0.6937 | 0.175                    | -0.6467 | 0.175                      | -0.6091 |
| 0.200                       | -0.7568 | 0.200                    | -0.6820 | 0.200                      | -0.5834 |
| 0.250                       | -0.8347 | 0.250                    | -0.7944 | 0.250                      | -0.6814 |
| 0.300                       | -0.9010 | 0.300                    | -0.8417 | 0.300                      | -0.7383 |
| 0.350                       | -0.9025 | 0.350                    | -0.8985 | 0.350                      | -0.8035 |
| 0.400                       | -0.9071 | 0.400                    | -0.9709 | 0.400                      | -0.8654 |
| 0.450                       | -0.8554 | 0.450                    | -0.9894 | 0.450                      | -0.9123 |
| 0.500                       | -0.7866 | 0.500                    | -1.0361 | 0.500                      | -0.9320 |
| 0.550                       | -0.4066 | 0.550                    | -0.6170 | 0.550                      | -0.6127 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3700 | 0.005 | 0.3706 | 0.005 | 0.3128  |
| 0.010 | 0.1201 | 0.010 | 0.0657 | 0.010 | -0.0582 |

Flight 21 Test point 32

Sweep, deg = 24.9 Mach = 0.80 hp, ft = 25100. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = 0.4 QBAR, lb/ft<sup>2</sup> = 349.1 Rnpu = 2822000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8921  | 0.000                    | 0.9209  | 0.000                      | 0.9176  |
| 0.005                       | 0.0557  | 0.005                    | 0.0956  | 0.005                      | 0.3472  |
| 0.010                       | -0.2057 | 0.010                    | -0.1586 | 0.010                      | 0.0582  |
| 0.020                       | -0.4538 | 0.020                    | -0.4110 | 0.020                      | -0.2960 |
| 0.040                       | -0.6770 | 0.040                    | -0.5747 | 0.040                      | -0.4627 |
| 0.060                       | -0.7199 | 0.060                    | -0.6297 | 0.060                      | -0.5477 |
| 0.080                       | -0.7312 | 0.080                    | -0.6767 | 0.080                      | -0.6144 |
| 0.100                       | -0.7463 | 0.100                    | -0.7110 | 0.100                      | -0.7188 |
| 0.125                       | -0.6632 | 0.125                    | -0.7243 | 0.125                      | -0.6226 |
| 0.150                       | -0.8150 | 0.150                    | -0.7368 | 0.150                      | -0.5934 |
| 0.175                       | -0.7839 | 0.175                    | -0.7681 | 0.175                      | -0.7152 |
| 0.200                       | -0.8535 | 0.200                    | -0.7800 | 0.200                      | -0.7729 |
| 0.250                       | -0.9391 | 0.250                    | -0.8658 | 0.250                      | -0.7708 |
| 0.300                       | -0.9799 | 0.300                    | -0.9225 | 0.300                      | -0.8261 |
| 0.350                       | -0.9881 | 0.350                    | -0.9678 | 0.350                      | -0.8867 |
| 0.400                       | -0.9848 | 0.400                    | -1.0445 | 0.400                      | -0.9565 |
| 0.450                       | -1.0086 | 0.450                    | -1.0684 | 0.450                      | -0.9963 |
| 0.500                       | -1.0848 | 0.500                    | -1.1095 | 0.500                      | -1.0185 |
| 0.550                       | -0.4377 | 0.550                    | -0.5045 | 0.550                      | -0.5282 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4937 | 0.005 | 0.4947 | 0.005 | 0.4458 |
| 0.010 | 0.2626 | 0.010 | 0.2213 | 0.010 | 0.1133 |

Flight 21 Test point 33

Sweep, deg = 30.0 Mach = 0.80 hp, ft = 25100. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 349.8 Rnpu = 2827000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8169  | 0.000                    | 0.8531  | 0.000                      | 0.8443  |
| 0.005                       | 0.2245  | 0.005                    | 0.2581  | 0.005                      | 0.4668  |
| 0.010                       | -0.0088 | 0.010                    | 0.0373  | 0.010                      | 0.2229  |
| 0.020                       | -0.2318 | 0.020                    | -0.1990 | 0.020                      | -0.0824 |
| 0.040                       | -0.3983 | 0.040                    | -0.3596 | 0.040                      | -0.2553 |
| 0.060                       | -0.4578 | 0.060                    | -0.4078 | 0.060                      | -0.3619 |
| 0.080                       | -0.4900 | 0.080                    | -0.4578 | 0.080                      | -0.3947 |
| 0.100                       | -0.5548 | 0.100                    | -0.4851 | 0.100                      | -0.4138 |
| 0.125                       | -0.5103 | 0.125                    | -0.4877 | 0.125                      | -0.4509 |
| 0.150                       | -0.5438 | 0.150                    | -0.5349 | 0.150                      | -0.4741 |
| 0.175                       | -0.5842 | 0.175                    | -0.5896 | 0.175                      | -0.5124 |
| 0.200                       | -0.6672 | 0.200                    | -0.6181 | 0.200                      | -0.5202 |
| 0.250                       | -0.6990 | 0.250                    | -0.7143 | 0.250                      | -0.6000 |
| 0.300                       | -0.7128 | 0.300                    | -0.7556 | 0.300                      | -0.6212 |
| 0.350                       | -0.6957 | 0.350                    | -0.7628 | 0.350                      | -0.7240 |
| 0.400                       | -0.6824 | 0.400                    | -0.8118 | 0.400                      | -0.5468 |
| 0.450                       | -0.5650 | 0.450                    | -0.4783 | 0.450                      | -0.4768 |
| 0.500                       | -0.4578 | 0.500                    | -0.5028 | 0.500                      | -0.4447 |
| 0.550                       | -0.4047 | 0.550                    | -0.4875 | 0.550                      | -0.4291 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2468 | 0.005 | 0.2590  | 0.005 | 0.1980  |
| 0.010 | 0.0074 | 0.010 | -0.0388 | 0.010 | -0.1623 |

Flight 21 Test point 34

Sweep, deg = 30.0 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 354.8 Rnpu = 2847000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8149  | 0.000                    | 0.8486  | 0.000                      | 0.8410  |
| 0.005                       | 0.1125  | 0.005                    | 0.1385  | 0.005                      | 0.3633  |
| 0.010                       | -0.1234 | 0.010                    | -0.0877 | 0.010                      | 0.1003  |
| 0.020                       | -0.3470 | 0.020                    | -0.3281 | 0.020                      | -0.2148 |
| 0.040                       | -0.5189 | 0.040                    | -0.4907 | 0.040                      | -0.3699 |
| 0.060                       | -0.6011 | 0.060                    | -0.5275 | 0.060                      | -0.4703 |
| 0.080                       | -0.5909 | 0.080                    | -0.5561 | 0.080                      | -0.5650 |
| 0.100                       | -0.5588 | 0.100                    | -0.5752 | 0.100                      | -0.4856 |
| 0.125                       | -0.6440 | 0.125                    | -0.5656 | 0.125                      | -0.5062 |
| 0.150                       | -0.6884 | 0.150                    | -0.6185 | 0.150                      | -0.6039 |
| 0.175                       | -0.6895 | 0.175                    | -0.6488 | 0.175                      | -0.6294 |
| 0.200                       | -0.7434 | 0.200                    | -0.6960 | 0.200                      | -0.5992 |
| 0.250                       | -0.7936 | 0.250                    | -0.7812 | 0.250                      | -0.6865 |
| 0.300                       | -0.7617 | 0.300                    | -0.8297 | 0.300                      | -0.7208 |
| 0.350                       | -0.7304 | 0.350                    | -0.8633 | 0.350                      | -0.8023 |
| 0.400                       | -0.7498 | 0.400                    | -0.9164 | 0.400                      | -0.8356 |
| 0.450                       | -0.7499 | 0.450                    | -0.9021 | 0.450                      | -0.8519 |
| 0.500                       | -0.5319 | 0.500                    | -0.5230 | 0.500                      | -0.3952 |
| 0.550                       | -0.4010 | 0.550                    | -0.4312 | 0.550                      | -0.3787 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3513 | 0.005 | 0.3678 | 0.005 | 0.3218  |
| 0.010 | 0.1257 | 0.010 | 0.0972 | 0.010 | -0.0067 |

Fight 21 Test point 35

Sweep, deg = 30.0 Mach = 0.80 hp, ft = 25100. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = 0.4 QBAR, lb/ft<sup>2</sup> = 347.8 Rnpu = 2808000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7978  | 0.000                    | 0.8225  | 0.000                      | 0.8203  |
| 0.005                       | -0.0242 | 0.005                    | -0.0054 | 0.005                      | 0.2441  |
| 0.010                       | -0.2686 | 0.010                    | -0.2401 | 0.010                      | -0.0390 |
| 0.020                       | -0.4907 | 0.020                    | -0.4716 | 0.020                      | -0.3706 |
| 0.040                       | -0.7134 | 0.040                    | -0.6232 | 0.040                      | -0.5109 |
| 0.060                       | -0.6578 | 0.060                    | -0.6551 | 0.060                      | -0.5633 |
| 0.080                       | -0.7294 | 0.080                    | -0.6794 | 0.080                      | -0.6468 |
| 0.100                       | -0.7268 | 0.100                    | -0.7116 | 0.100                      | -0.7347 |
| 0.125                       | -0.6863 | 0.125                    | -0.7039 | 0.125                      | -0.5939 |
| 0.150                       | -0.7583 | 0.150                    | -0.7134 | 0.150                      | -0.6363 |
| 0.175                       | -0.7539 | 0.175                    | -0.7441 | 0.175                      | -0.7138 |
| 0.200                       | -0.8348 | 0.200                    | -0.7725 | 0.200                      | -0.6998 |
| 0.250                       | -0.8858 | 0.250                    | -0.8553 | 0.250                      | -0.7707 |
| 0.300                       | -0.9119 | 0.300                    | -0.8710 | 0.300                      | -0.8078 |
| 0.350                       | -0.7509 | 0.350                    | -0.9301 | 0.350                      | -0.8617 |
| 0.400                       | -0.7593 | 0.400                    | -0.9904 | 0.400                      | -0.8969 |
| 0.450                       | -0.7721 | 0.450                    | -1.0016 | 0.450                      | -0.9371 |
| 0.500                       | -0.4874 | 0.500                    | -0.5157 | 0.500                      | -0.4072 |
| 0.550                       | -0.4059 | 0.550                    | -0.4258 | 0.550                      | -0.3760 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.4525 | 0.005 | 0.4675 | 0.005 | 0.4293 |
| 0.010         | 0.2388 | 0.010 | 0.2193 | 0.010 | 0.1340 |



Fight 21 Test point 36

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 270.4 Rnpu = 2457000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9435  | 0.000                    | 0.9805  | 0.000                      | 0.9815  |
| 0.005                       | 0.0023  | 0.005                    | 0.0721  | 0.005                      | 0.3843  |
| 0.010                       | -0.2791 | 0.010                    | -0.1996 | 0.010                      | 0.0732  |
| 0.020                       | -0.5313 | 0.020                    | -0.4621 | 0.020                      | -0.2840 |
| 0.040                       | -0.6987 | 0.040                    | -0.6125 | 0.040                      | -0.4428 |
| 0.060                       | -0.7255 | 0.060                    | -0.6405 | 0.060                      | -0.5216 |
| 0.080                       | -0.7378 | 0.080                    | -0.6615 | 0.080                      | -0.5440 |
| 0.100                       | -0.7486 | 0.100                    | -0.6614 | 0.100                      | -0.5501 |
| 0.125                       | -0.6654 | 0.125                    | -0.6588 | 0.125                      | -0.5506 |
| 0.150                       | -0.7508 | 0.150                    | -0.6878 | 0.150                      | -0.5767 |
| 0.175                       | -0.7282 | 0.175                    | -0.7177 | 0.175                      | -0.5927 |
| 0.200                       | -0.7790 | 0.200                    | -0.7350 | 0.200                      | -0.5974 |
| 0.250                       | -0.7688 | 0.250                    | -0.7705 | 0.250                      | -0.6318 |
| 0.300                       | -0.7488 | 0.300                    | -0.7454 | 0.300                      | -0.6262 |
| 0.350                       | -0.6728 | 0.350                    | -0.6809 | 0.350                      | -0.6206 |
| 0.400                       | -0.6079 | 0.400                    | -0.6645 | 0.400                      | -0.5872 |
| 0.450                       | -0.5385 | 0.450                    | -0.5959 | 0.450                      | -0.5525 |
| 0.500                       | -0.5134 | 0.500                    | -0.5706 | 0.500                      | -0.5085 |
| 0.550                       | -0.4445 | 0.550                    | -0.5468 | 0.550                      | -0.4801 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4943 | 0.005 | 0.4972 | 0.005 | 0.4115 |
| 0.010 | 0.2439 | 0.010 | 0.1903 | 0.010 | 0.0368 |

Fight 21 Test point 37

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 24900. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = -4.7 QBAR, lb/ft<sup>2</sup> = 270.4 Rnpu = 2455000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9914  | 0.000                    | 1.0383  | 0.000                      | 1.0415  |
| 0.005                       | 0.0182  | 0.005                    | 0.1167  | 0.005                      | 0.4449  |
| 0.010                       | -0.2684 | 0.010                    | -0.1674 | 0.010                      | 0.1297  |
| 0.020                       | -0.5318 | 0.020                    | -0.4335 | 0.020                      | -0.2400 |
| 0.040                       | -0.7086 | 0.040                    | -0.5933 | 0.040                      | -0.4100 |
| 0.060                       | -0.7427 | 0.060                    | -0.6288 | 0.060                      | -0.4331 |
| 0.080                       | -0.7593 | 0.080                    | -0.6565 | 0.080                      | -0.5195 |
| 0.100                       | -0.7694 | 0.100                    | -0.6606 | 0.100                      | -0.5387 |
| 0.125                       | -0.6818 | 0.125                    | -0.6620 | 0.125                      | -0.5365 |
| 0.150                       | -0.7754 | 0.150                    | -0.6918 | 0.150                      | -0.5663 |
| 0.175                       | -0.7560 | 0.175                    | -0.7250 | 0.175                      | -0.5841 |
| 0.200                       | -0.8111 | 0.200                    | -0.7440 | 0.200                      | -0.5872 |
| 0.250                       | -0.7974 | 0.250                    | -0.7866 | 0.250                      | -0.6285 |
| 0.300                       | -0.7686 | 0.300                    | -0.7594 | 0.300                      | -0.6295 |
| 0.350                       | -0.6818 | 0.350                    | -0.6937 | 0.350                      | -0.6283 |
| 0.400                       | -0.6094 | 0.400                    | -0.6797 | 0.400                      | -0.6018 |
| 0.450                       | -0.5370 | 0.450                    | -0.5985 | 0.450                      | -0.5472 |
| 0.500                       | -0.5084 | 0.500                    | -0.5738 | 0.500                      | -0.5054 |
| 0.550                       | -0.4328 | 0.550                    | -0.5439 | 0.550                      | -0.4739 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5409 | 0.005 | 0.5223 | 0.005 | 0.4225 |
| 0.010 | 0.2856 | 0.010 | 0.2064 | 0.010 | 0.0297 |

Fight 21 Test point 38

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 25400. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 264.9 Rnpu = 2411000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9576  | 0.000                    | 0.9971  | 0.000                      | 0.9835  |
| 0.005                       | 0.1831  | 0.005                    | 0.2522  | 0.005                      | 0.5283  |
| 0.010                       | -0.0877 | 0.010                    | -0.0083 | 0.010                      | 0.2412  |
| 0.020                       | -0.3401 | 0.020                    | -0.2740 | 0.020                      | -0.1010 |
| 0.040                       | -0.5199 | 0.040                    | -0.4372 | 0.040                      | -0.2819 |
| 0.060                       | -0.5727 | 0.060                    | -0.4838 | 0.060                      | -0.3764 |
| 0.080                       | -0.6036 | 0.080                    | -0.5167 | 0.080                      | -0.4082 |
| 0.100                       | -0.6160 | 0.100                    | -0.5310 | 0.100                      | -0.4326 |
| 0.125                       | -0.5671 | 0.125                    | -0.5460 | 0.125                      | -0.4435 |
| 0.150                       | -0.6452 | 0.150                    | -0.5756 | 0.150                      | -0.4786 |
| 0.175                       | -0.6349 | 0.175                    | -0.6096 | 0.175                      | -0.4987 |
| 0.200                       | -0.6851 | 0.200                    | -0.6322 | 0.200                      | -0.5051 |
| 0.250                       | -0.6850 | 0.250                    | -0.6791 | 0.250                      | -0.5512 |
| 0.300                       | -0.6771 | 0.300                    | -0.6653 | 0.300                      | -0.5578 |
| 0.350                       | -0.6191 | 0.350                    | -0.6244 | 0.350                      | -0.5625 |
| 0.400                       | -0.5683 | 0.400                    | -0.6200 | 0.400                      | -0.5410 |
| 0.450                       | -0.5097 | 0.450                    | -0.5583 | 0.450                      | -0.5203 |
| 0.500                       | -0.4855 | 0.500                    | -0.5424 | 0.500                      | -0.4760 |
| 0.550                       | -0.4221 | 0.550                    | -0.5199 | 0.550                      | -0.4614 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3526 | 0.005 | 0.3450 | 0.005 | 0.2428  |
| 0.010 | 0.0839 | 0.010 | 0.0112 | 0.010 | -0.1677 |

Flight 21 Test point 39

Sweep, deg = 24.9 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 268.3 Rnpu = 2440000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8694  | 0.000                    | 0.9091  | 0.000                      | 0.9103  |
| 0.005                       | -0.0552 | 0.005                    | -0.0005 | 0.005                      | 0.3100  |
| 0.010                       | -0.3209 | 0.010                    | -0.2568 | 0.010                      | 0.0092  |
| 0.020                       | -0.5499 | 0.020                    | -0.4930 | 0.020                      | -0.3318 |
| 0.040                       | -0.6891 | 0.040                    | -0.6191 | 0.040                      | -0.4652 |
| 0.060                       | -0.7016 | 0.060                    | -0.6313 | 0.060                      | -0.5279 |
| 0.080                       | -0.7105 | 0.080                    | -0.6443 | 0.080                      | -0.5358 |
| 0.100                       | -0.7063 | 0.100                    | -0.6413 | 0.100                      | -0.5440 |
| 0.125                       | -0.6272 | 0.125                    | -0.6325 | 0.125                      | -0.5358 |
| 0.150                       | -0.7015 | 0.150                    | -0.6562 | 0.150                      | -0.5552 |
| 0.175                       | -0.6808 | 0.175                    | -0.6784 | 0.175                      | -0.5696 |
| 0.200                       | -0.7251 | 0.200                    | -0.6819 | 0.200                      | -0.5562 |
| 0.250                       | -0.7133 | 0.250                    | -0.7147 | 0.250                      | -0.5890 |
| 0.300                       | -0.6932 | 0.300                    | -0.6912 | 0.300                      | -0.5799 |
| 0.350                       | -0.6309 | 0.350                    | -0.6311 | 0.350                      | -0.5776 |
| 0.400                       | -0.5711 | 0.400                    | -0.6189 | 0.400                      | -0.5475 |
| 0.450                       | -0.5077 | 0.450                    | -0.5564 | 0.450                      | -0.5215 |
| 0.500                       | -0.4900 | 0.500                    | -0.5373 | 0.500                      | -0.4813 |
| 0.550                       | -0.4219 | 0.550                    | -0.5221 | 0.550                      | -0.4646 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4795 | 0.005 | 0.4854 | 0.005 | 0.4041 |
| 0.010 | 0.2437 | 0.010 | 0.2015 | 0.010 | 0.0626 |

Flight 21 Test point 40

Sweep, deg = 24.9 Mach = 0.71 hp, ft = 25100. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 272.3 Rnpu = 2450000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8879  | 0.000                    | 0.9262  | 0.000                      | 0.9192  |
| 0.005                       | 0.1342  | 0.005                    | 0.1886  | 0.005                      | 0.4575  |
| 0.010                       | -0.1237 | 0.010                    | -0.0510 | 0.010                      | 0.1827  |
| 0.020                       | -0.3570 | 0.020                    | -0.2953 | 0.020                      | -0.1426 |
| 0.040                       | -0.5146 | 0.040                    | -0.4496 | 0.040                      | -0.3051 |
| 0.060                       | -0.5552 | 0.060                    | -0.4848 | 0.060                      | -0.3848 |
| 0.080                       | -0.5806 | 0.080                    | -0.5156 | 0.080                      | -0.4172 |
| 0.100                       | -0.5931 | 0.100                    | -0.5271 | 0.100                      | -0.4390 |
| 0.125                       | -0.5438 | 0.125                    | -0.5337 | 0.125                      | -0.4409 |
| 0.150                       | -0.6122 | 0.150                    | -0.5568 | 0.150                      | -0.4667 |
| 0.175                       | -0.6034 | 0.175                    | -0.5866 | 0.175                      | -0.4885 |
| 0.200                       | -0.6458 | 0.200                    | -0.6010 | 0.200                      | -0.4853 |
| 0.250                       | -0.6481 | 0.250                    | -0.6465 | 0.250                      | -0.5300 |
| 0.300                       | -0.6396 | 0.300                    | -0.6352 | 0.300                      | -0.5285 |
| 0.350                       | -0.5897 | 0.350                    | -0.5856 | 0.350                      | -0.5367 |
| 0.400                       | -0.5416 | 0.400                    | -0.5800 | 0.400                      | -0.5178 |
| 0.450                       | -0.4810 | 0.450                    | -0.5279 | 0.450                      | -0.4918 |
| 0.500                       | -0.4668 | 0.500                    | -0.5140 | 0.500                      | -0.4554 |
| 0.550                       | -0.4087 | 0.550                    | -0.5071 | 0.550                      | -0.4496 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3375 | 0.005 | 0.3327 | 0.005 | 0.2411  |
| 0.010 | 0.0881 | 0.010 | 0.0287 | 0.010 | -0.1322 |

Fight 21 Test point 41

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 269.3 Rnpu = 2437000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7692  | 0.000                    | 0.7995  | 0.000                      | 0.8088  |
| 0.005                       | -0.1466 | 0.005                    | -0.1079 | 0.005                      | 0.1952  |
| 0.010                       | -0.3833 | 0.010                    | -0.3353 | 0.010                      | -0.0897 |
| 0.020                       | -0.5846 | 0.020                    | -0.5467 | 0.020                      | -0.3927 |
| 0.040                       | -0.6814 | 0.040                    | -0.6408 | 0.040                      | -0.4988 |
| 0.060                       | -0.6787 | 0.060                    | -0.6298 | 0.060                      | -0.5411 |
| 0.080                       | -0.6709 | 0.080                    | -0.6280 | 0.080                      | -0.5385 |
| 0.100                       | -0.6593 | 0.100                    | -0.6183 | 0.100                      | -0.5361 |
| 0.125                       | -0.5892 | 0.125                    | -0.5948 | 0.125                      | -0.5141 |
| 0.150                       | -0.6508 | 0.150                    | -0.6116 | 0.150                      | -0.5248 |
| 0.175                       | -0.6326 | 0.175                    | -0.6249 | 0.175                      | -0.5418 |
| 0.200                       | -0.6667 | 0.200                    | -0.6291 | 0.200                      | -0.5312 |
| 0.250                       | -0.6491 | 0.250                    | -0.6540 | 0.250                      | -0.5565 |
| 0.300                       | -0.6278 | 0.300                    | -0.6318 | 0.300                      | -0.5370 |
| 0.350                       | -0.5765 | 0.350                    | -0.5780 | 0.350                      | -0.5309 |
| 0.400                       | -0.5263 | 0.400                    | -0.5678 | 0.400                      | -0.5022 |
| 0.450                       | -0.4701 | 0.450                    | -0.5102 | 0.450                      | -0.4781 |
| 0.500                       | -0.4526 | 0.500                    | -0.4948 | 0.500                      | -0.4438 |
| 0.550                       | -0.3933 | 0.550                    | -0.4831 | 0.550                      | -0.4418 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4605 | 0.005 | 0.4766 | 0.005 | 0.4125 |
| 0.010 | 0.2531 | 0.010 | 0.2293 | 0.010 | 0.1179 |

Fight 21 Test point 42

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 269.2 R<sub>npu</sub> = 2441000.

Upper surface

| BL 200.8<br>Inboard station |                | BL 260<br>Middle station |                | BL 320<br>Outboard station |                |
|-----------------------------|----------------|--------------------------|----------------|----------------------------|----------------|
| x/c                         | C <sub>p</sub> | x/c                      | C <sub>p</sub> | x/c                        | C <sub>p</sub> |
| 0.000                       | 0.7855         | 0.000                    | 0.8204         | 0.000                      | 0.8185         |
| 0.005                       | 0.0000         | 0.005                    | 0.0353         | 0.005                      | 0.3132         |
| 0.010                       | -0.2348        | 0.010                    | -0.1851        | 0.010                      | 0.0446         |
| 0.020                       | -0.4338        | 0.020                    | -0.3997        | 0.020                      | -0.2506        |
| 0.040                       | -0.5565        | 0.040                    | -0.5103        | 0.040                      | -0.3783        |
| 0.060                       | -0.5772        | 0.060                    | -0.5209        | 0.060                      | -0.4358        |
| 0.080                       | -0.5801        | 0.080                    | -0.5350        | 0.080                      | -0.4464        |
| 0.100                       | -0.5760        | 0.100                    | -0.5376        | 0.100                      | -0.4552        |
| 0.125                       | -0.5298        | 0.125                    | -0.5216        | 0.125                      | -0.4433        |
| 0.150                       | -0.5869        | 0.150                    | -0.5446        | 0.150                      | -0.4650        |
| 0.175                       | -0.5765        | 0.175                    | -0.5619        | 0.175                      | -0.4851        |
| 0.200                       | -0.6086        | 0.200                    | -0.5676        | 0.200                      | -0.4762        |
| 0.250                       | -0.6052        | 0.250                    | -0.5996        | 0.250                      | -0.5086        |
| 0.300                       | -0.5879        | 0.300                    | -0.5846        | 0.300                      | -0.4940        |
| 0.350                       | -0.5497        | 0.350                    | -0.5480        | 0.350                      | -0.4957        |
| 0.400                       | -0.5008        | 0.400                    | -0.5401        | 0.400                      | -0.4773        |
| 0.450                       | -0.4526        | 0.450                    | -0.4859        | 0.450                      | -0.4572        |
| 0.500                       | -0.4367        | 0.500                    | -0.4742        | 0.500                      | -0.4229        |
| 0.550                       | -0.3837        | 0.550                    | -0.4696        | 0.550                      | -0.4250        |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3625 | 0.005 | 0.3829 | 0.005 | 0.3025  |
| 0.010 | 0.1425 | 0.010 | 0.1168 | 0.010 | -0.0198 |

Fight 21 Test point 43

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 271.5 Rnpu = 2455000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7759  | 0.000                    | 0.8058  | 0.000                      | 0.8142  |
| 0.005                       | -0.0983 | 0.005                    | -0.0625 | 0.005                      | 0.2338  |
| 0.010                       | -0.3363 | 0.010                    | -0.2927 | 0.010                      | -0.0469 |
| 0.020                       | -0.5359 | 0.020                    | -0.5002 | 0.020                      | -0.3518 |
| 0.040                       | -0.6422 | 0.040                    | -0.5962 | 0.040                      | -0.4617 |
| 0.060                       | -0.6494 | 0.060                    | -0.5974 | 0.060                      | -0.5090 |
| 0.080                       | -0.6482 | 0.080                    | -0.6019 | 0.080                      | -0.5119 |
| 0.100                       | -0.6336 | 0.100                    | -0.5963 | 0.100                      | -0.5162 |
| 0.125                       | -0.5737 | 0.125                    | -0.5751 | 0.125                      | -0.4964 |
| 0.150                       | -0.6337 | 0.150                    | -0.5939 | 0.150                      | -0.5135 |
| 0.175                       | -0.6165 | 0.175                    | -0.6149 | 0.175                      | -0.5321 |
| 0.200                       | -0.6522 | 0.200                    | -0.6175 | 0.200                      | -0.5186 |
| 0.250                       | -0.6417 | 0.250                    | -0.6390 | 0.250                      | -0.5450 |
| 0.300                       | -0.6183 | 0.300                    | -0.6166 | 0.300                      | -0.5259 |
| 0.350                       | -0.5704 | 0.350                    | -0.5749 | 0.350                      | -0.5267 |
| 0.400                       | -0.5198 | 0.400                    | -0.5600 | 0.400                      | -0.5007 |
| 0.450                       | -0.4669 | 0.450                    | -0.5060 | 0.450                      | -0.4761 |
| 0.500                       | -0.4477 | 0.500                    | -0.4922 | 0.500                      | -0.4400 |
| 0.550                       | -0.3895 | 0.550                    | -0.4809 | 0.550                      | -0.4391 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4346 | 0.005 | 0.4485 | 0.005 | 0.3825 |
| 0.010 | 0.2191 | 0.010 | 0.1938 | 0.010 | 0.0743 |



Flight 21 Test point 44

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 334.5 Rrho = 2913000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9558  | 0.000                    | 0.9940  | 0.000                      | 0.9815  |
| 0.005                       | 0.1828  | 0.005                    | 0.2462  | 0.005                      | 0.5238  |
| 0.010                       | -0.0923 | 0.010                    | -0.0169 | 0.010                      | 0.2397  |
| 0.020                       | -0.3467 | 0.020                    | -0.2809 | 0.020                      | -0.1092 |
| 0.040                       | -0.5264 | 0.040                    | -0.4439 | 0.040                      | -0.2891 |
| 0.060                       | -0.5765 | 0.060                    | -0.4927 | 0.060                      | -0.3837 |
| 0.080                       | -0.6072 | 0.080                    | -0.5251 | 0.080                      | -0.4174 |
| 0.100                       | -0.6268 | 0.100                    | -0.5458 | 0.100                      | -0.4375 |
| 0.125                       | -0.5704 | 0.125                    | -0.5551 | 0.125                      | -0.4485 |
| 0.150                       | -0.6510 | 0.150                    | -0.5863 | 0.150                      | -0.4829 |
| 0.175                       | -0.6453 | 0.175                    | -0.6230 | 0.175                      | -0.5075 |
| 0.200                       | -0.6945 | 0.200                    | -0.6403 | 0.200                      | -0.5162 |
| 0.250                       | -0.6973 | 0.250                    | -0.6803 | 0.250                      | -0.5584 |
| 0.300                       | -0.6888 | 0.300                    | -0.6769 | 0.300                      | -0.5651 |
| 0.350                       | -0.6280 | 0.350                    | -0.6386 | 0.350                      | -0.5726 |
| 0.400                       | -0.5751 | 0.400                    | -0.6216 | 0.400                      | -0.5495 |
| 0.450                       | -0.5153 | 0.450                    | -0.5632 | 0.450                      | -0.5267 |
| 0.500                       | -0.4946 | 0.500                    | -0.5459 | 0.500                      | -0.4813 |
| 0.550                       | -0.4337 | 0.550                    | -0.5333 | 0.550                      | -0.4637 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3549 | 0.005 | 0.3439 | 0.005 | 0.2406  |
| 0.010 | 0.0845 | 0.010 | 0.0118 | 0.010 | -0.1689 |

Fight 21 Test point 45

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 19900. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 335.1 Rnpu = 2914000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0168  | 0.000                    | 1.0524  | 0.000                      | 1.0370  |
| 0.005                       | 0.2199  | 0.005                    | 0.3142  | 0.005                      | 0.5999  |
| 0.010                       | -0.0652 | 0.010                    | 0.0403  | 0.010                      | 0.3102  |
| 0.020                       | -0.3284 | 0.020                    | -0.2361 | 0.020                      | -0.0492 |
| 0.040                       | -0.5218 | 0.040                    | -0.4107 | 0.040                      | -0.2392 |
| 0.060                       | -0.5767 | 0.060                    | -0.4669 | 0.060                      | -0.3394 |
| 0.080                       | -0.6096 | 0.080                    | -0.5087 | 0.080                      | -0.3803 |
| 0.100                       | -0.6272 | 0.100                    | -0.5288 | 0.100                      | -0.4081 |
| 0.125                       | -0.5747 | 0.125                    | -0.5439 | 0.125                      | -0.4254 |
| 0.150                       | -0.6599 | 0.150                    | -0.5797 | 0.150                      | -0.4609 |
| 0.175                       | -0.6540 | 0.175                    | -0.6153 | 0.175                      | -0.4887 |
| 0.200                       | -0.7071 | 0.200                    | -0.6385 | 0.200                      | -0.4989 |
| 0.250                       | -0.7121 | 0.250                    | -0.6860 | 0.250                      | -0.5466 |
| 0.300                       | -0.6983 | 0.300                    | -0.6747 | 0.300                      | -0.5569 |
| 0.350                       | -0.6336 | 0.350                    | -0.6426 | 0.350                      | -0.5707 |
| 0.400                       | -0.5734 | 0.400                    | -0.6297 | 0.400                      | -0.5511 |
| 0.450                       | -0.5116 | 0.450                    | -0.5656 | 0.450                      | -0.5363 |
| 0.500                       | -0.4873 | 0.500                    | -0.5439 | 0.500                      | -0.4687 |
| 0.550                       | -0.4232 | 0.550                    | -0.5291 | 0.550                      | -0.4556 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3923 | 0.005 | 0.3535 | 0.005 | 0.2368  |
| 0.010 | 0.1136 | 0.010 | 0.0111 | 0.010 | -0.1995 |

Fight 21 Test point 46

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 20100. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 335.5 Rrho = 2917000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9329  | 0.000                    | 0.9676  | 0.000                      | 0.9698  |
| 0.005                       | -0.0551 | 0.005                    | 0.0630  | 0.005                      | 0.3297  |
| 0.010                       | -0.3383 | 0.010                    | -0.2751 | 0.010                      | 0.0105  |
| 0.020                       | -0.5970 | 0.020                    | -0.5328 | 0.020                      | -0.3566 |
| 0.040                       | -0.7626 | 0.040                    | -0.6794 | 0.040                      | -0.5127 |
| 0.060                       | -0.7830 | 0.060                    | -0.7042 | 0.060                      | -0.5843 |
| 0.080                       | -0.7847 | 0.080                    | -0.7152 | 0.080                      | -0.5980 |
| 0.100                       | -0.8059 | 0.100                    | -0.7165 | 0.100                      | -0.6043 |
| 0.125                       | -0.6940 | 0.125                    | -0.7118 | 0.125                      | -0.5966 |
| 0.150                       | -0.7884 | 0.150                    | -0.7369 | 0.150                      | -0.6205 |
| 0.175                       | -0.7731 | 0.175                    | -0.7642 | 0.175                      | -0.6392 |
| 0.200                       | -0.8160 | 0.200                    | -0.7759 | 0.200                      | -0.6414 |
| 0.250                       | -0.8058 | 0.250                    | -0.8118 | 0.250                      | -0.6692 |
| 0.300                       | -0.7824 | 0.300                    | -0.7842 | 0.300                      | -0.6566 |
| 0.350                       | -0.6939 | 0.350                    | -0.7153 | 0.350                      | -0.6465 |
| 0.400                       | -0.6278 | 0.400                    | -0.6893 | 0.400                      | -0.6063 |
| 0.450                       | -0.5582 | 0.450                    | -0.6167 | 0.450                      | -0.5765 |
| 0.500                       | -0.5290 | 0.500                    | -0.5856 | 0.500                      | -0.5272 |
| 0.550                       | -0.4562 | 0.550                    | -0.5611 | 0.550                      | -0.4972 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5345 | 0.005 | 0.5300 | 0.005 | 0.4547 |
| 0.010 | 0.2878 | 0.010 | 0.2396 | 0.010 | 0.0914 |

Fight 21 Test point 47

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 336.6 R<sub>hpu</sub> = 2924000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8809  | 0.000                    | 0.9174  | 0.000                      | 0.9107  |
| 0.005                       | 0.1096  | 0.005                    | 0.1648  | 0.005                      | 0.4364  |
| 0.010                       | -0.1470 | 0.010                    | -0.0847 | 0.010                      | 0.1620  |
| 0.020                       | -0.3844 | 0.020                    | -0.3300 | 0.020                      | -0.1678 |
| 0.040                       | -0.5377 | 0.040                    | -0.4711 | 0.040                      | -0.3263 |
| 0.060                       | -0.5732 | 0.060                    | -0.5061 | 0.060                      | -0.4044 |
| 0.080                       | -0.5945 | 0.080                    | -0.5293 | 0.080                      | -0.4299 |
| 0.100                       | -0.6040 | 0.100                    | -0.5431 | 0.100                      | -0.4488 |
| 0.125                       | -0.5473 | 0.125                    | -0.5464 | 0.125                      | -0.4578 |
| 0.150                       | -0.6201 | 0.150                    | -0.5702 | 0.150                      | -0.4734 |
| 0.175                       | -0.6111 | 0.175                    | -0.5959 | 0.175                      | -0.4966 |
| 0.200                       | -0.6525 | 0.200                    | -0.6058 | 0.200                      | -0.4917 |
| 0.250                       | -0.6545 | 0.250                    | -0.6463 | 0.250                      | -0.5344 |
| 0.300                       | -0.6450 | 0.300                    | -0.6360 | 0.300                      | -0.5321 |
| 0.350                       | -0.5926 | 0.350                    | -0.5964 | 0.350                      | -0.5382 |
| 0.400                       | -0.5418 | 0.400                    | -0.5849 | 0.400                      | -0.5171 |
| 0.450                       | -0.4871 | 0.450                    | -0.5327 | 0.450                      | -0.4937 |
| 0.500                       | -0.4686 | 0.500                    | -0.5171 | 0.500                      | -0.4606 |
| 0.550                       | -0.4106 | 0.550                    | -0.5057 | 0.550                      | -0.4527 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3545 | 0.005 | 0.3519 | 0.005 | 0.2573  |
| 0.010 | 0.1017 | 0.010 | 0.0499 | 0.010 | -0.1113 |

Flight 21 Test point 48

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 19800. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 337.0 Rnpu = 2932000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8759  | 0.000                    | 0.9134  | 0.000                      | 0.9087  |
| 0.005                       | 0.0452  | 0.005                    | 0.1002  | 0.005                      | 0.3839  |
| 0.010                       | -0.2152 | 0.010                    | -0.1556 | 0.010                      | 0.0989  |
| 0.020                       | -0.4476 | 0.020                    | -0.3937 | 0.020                      | -0.2305 |
| 0.040                       | -0.5970 | 0.040                    | -0.5283 | 0.040                      | -0.3807 |
| 0.060                       | -0.6227 | 0.060                    | -0.5544 | 0.060                      | -0.4527 |
| 0.080                       | -0.6358 | 0.080                    | -0.5752 | 0.080                      | -0.4716 |
| 0.100                       | -0.6410 | 0.100                    | -0.5821 | 0.100                      | -0.4854 |
| 0.125                       | -0.5732 | 0.125                    | -0.5816 | 0.125                      | -0.4860 |
| 0.150                       | -0.6462 | 0.150                    | -0.6019 | 0.150                      | -0.5043 |
| 0.175                       | -0.6344 | 0.175                    | -0.6218 | 0.175                      | -0.5231 |
| 0.200                       | -0.6759 | 0.200                    | -0.6316 | 0.200                      | -0.5170 |
| 0.250                       | -0.6761 | 0.250                    | -0.6683 | 0.250                      | -0.5574 |
| 0.300                       | -0.6589 | 0.300                    | -0.6509 | 0.300                      | -0.5475 |
| 0.350                       | -0.6041 | 0.350                    | -0.6084 | 0.350                      | -0.5539 |
| 0.400                       | -0.5521 | 0.400                    | -0.5933 | 0.400                      | -0.5288 |
| 0.450                       | -0.4949 | 0.450                    | -0.5421 | 0.450                      | -0.5038 |
| 0.500                       | -0.4755 | 0.500                    | -0.5221 | 0.500                      | -0.4628 |
| 0.550                       | -0.4166 | 0.550                    | -0.5159 | 0.550                      | -0.4603 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4026 | 0.005 | 0.4038 | 0.005 | 0.3192  |
| 0.010 | 0.1576 | 0.010 | 0.1132 | 0.010 | -0.0376 |

Fight 21 Test point 49

Sweep, deg = 24.9 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 334.5 Rnpu = 2914000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8623  | 0.000                    | 0.3962  | 0.000                      | 0.9012  |
| 0.005                       | -0.0707 | 0.005                    | -0.0147 | 0.005                      | 0.2964  |
| 0.010                       | -0.3320 | 0.010                    | -0.2728 | 0.010                      | -0.0028 |
| 0.020                       | -0.5657 | 0.020                    | -0.5089 | 0.020                      | -0.3438 |
| 0.040                       | -0.7011 | 0.040                    | -0.6326 | 0.040                      | -0.4751 |
| 0.060                       | -0.7121 | 0.060                    | -0.6461 | 0.060                      | -0.5341 |
| 0.080                       | -0.7173 | 0.080                    | -0.6561 | 0.080                      | -0.5474 |
| 0.100                       | -0.7226 | 0.100                    | -0.6541 | 0.100                      | -0.5537 |
| 0.125                       | -0.6321 | 0.125                    | -0.6466 | 0.125                      | -0.5455 |
| 0.150                       | -0.7062 | 0.150                    | -0.6642 | 0.150                      | -0.5627 |
| 0.175                       | -0.6857 | 0.175                    | -0.6783 | 0.175                      | -0.5755 |
| 0.200                       | -0.7268 | 0.200                    | -0.6830 | 0.200                      | -0.5616 |
| 0.250                       | -0.7182 | 0.250                    | -0.7158 | 0.250                      | -0.5969 |
| 0.300                       | -0.7006 | 0.300                    | -0.6933 | 0.300                      | -0.5824 |
| 0.350                       | -0.6315 | 0.350                    | -0.6423 | 0.350                      | -0.5800 |
| 0.400                       | -0.5757 | 0.400                    | -0.6206 | 0.400                      | -0.5506 |
| 0.450                       | -0.5117 | 0.450                    | -0.5601 | 0.450                      | -0.5246 |
| 0.500                       | -0.4902 | 0.500                    | -0.5380 | 0.500                      | -0.4814 |
| 0.550                       | -0.4284 | 0.550                    | -0.5236 | 0.550                      | -0.4661 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4820 | 0.005 | 0.4867 | 0.005 | 0.4068 |
| 0.010 | 0.2511 | 0.010 | 0.2107 | 0.010 | 0.0723 |

Fight 21 Test point 50

Sweep, deg = 20.0 Mach = 0.60 hp, ft = 10000. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 371.5 Rnpu = 3475000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9312  | 0.000                    | 0.9644  | 0.000                      | 0.9538  |
| 0.005                       | 0.1165  | 0.005                    | 0.2008  | 0.005                      | 0.5007  |
| 0.010                       | -0.1510 | 0.010                    | -0.0592 | 0.010                      | 0.2181  |
| 0.020                       | -0.3812 | 0.020                    | -0.2987 | 0.020                      | -0.1136 |
| 0.040                       | -0.5175 | 0.040                    | -0.4317 | 0.040                      | -0.2719 |
| 0.060                       | -0.5439 | 0.060                    | -0.4618 | 0.060                      | -0.3486 |
| 0.080                       | -0.5574 | 0.080                    | -0.4782 | 0.080                      | -0.3674 |
| 0.100                       | -0.5613 | 0.100                    | -0.4886 | 0.100                      | -0.3854 |
| 0.125                       | -0.5019 | 0.125                    | -0.4955 | 0.125                      | -0.3937 |
| 0.150                       | -0.5636 | 0.150                    | -0.5169 | 0.150                      | -0.4179 |
| 0.175                       | -0.5545 | 0.175                    | -0.5385 | 0.175                      | -0.4377 |
| 0.200                       | -0.5902 | 0.200                    | -0.5506 | 0.200                      | -0.4416 |
| 0.250                       | -0.5898 | 0.250                    | -0.5650 | 0.250                      | -0.4716 |
| 0.300                       | -0.5778 | 0.300                    | -0.5586 | 0.300                      | -0.4627 |
| 0.350                       | -0.5332 | 0.350                    | -0.5321 | 0.350                      | -0.4724 |
| 0.400                       | -0.4945 | 0.400                    | -0.5249 | 0.400                      | -0.4623 |
| 0.450                       | -0.4460 | 0.450                    | -0.4841 | 0.450                      | -0.4500 |
| 0.500                       | -0.4390 | 0.500                    | -0.4756 | 0.500                      | -0.4278 |
| 0.550                       | -0.3911 | 0.550                    | -0.4767 | 0.550                      | -0.4425 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3412 | 0.005 | 0.3115  | 0.005 | 0.1815  |
| 0.010 | 0.0781 | 0.010 | -0.0118 | 0.010 | -0.2182 |

Fight 21 Test point 51

Sweep, deg = 20.0 Mach = 0.59 hp, ft = 9800. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -4.6 QBAR, lb/ft<sup>2</sup> = 359.9 Rnpu = 3422000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9812  | 0.000                    | 1.0200  | 0.000                      | 1.0044  |
| 0.005                       | 0.1370  | 0.005                    | 0.2486  | 0.005                      | 0.5604  |
| 0.010                       | -0.1358 | 0.010                    | -0.0190 | 0.010                      | 0.2754  |
| 0.020                       | -0.3759 | 0.020                    | -0.2737 | 0.020                      | -0.0727 |
| 0.040                       | -0.5136 | 0.040                    | -0.4079 | 0.040                      | -0.2384 |
| 0.060                       | -0.5433 | 0.060                    | -0.4391 | 0.060                      | -0.3129 |
| 0.080                       | -0.5564 | 0.080                    | -0.4617 | 0.080                      | -0.3394 |
| 0.100                       | -0.5594 | 0.100                    | -0.4742 | 0.100                      | -0.3590 |
| 0.125                       | -0.5032 | 0.125                    | -0.4815 | 0.125                      | -0.3699 |
| 0.150                       | -0.5644 | 0.150                    | -0.5034 | 0.150                      | -0.3960 |
| 0.175                       | -0.5548 | 0.175                    | -0.5253 | 0.175                      | -0.4138 |
| 0.200                       | -0.5890 | 0.200                    | -0.5362 | 0.200                      | -0.4228 |
| 0.250                       | -0.5887 | 0.250                    | -0.5553 | 0.250                      | -0.4581 |
| 0.300                       | -0.5751 | 0.300                    | -0.5487 | 0.300                      | -0.4635 |
| 0.350                       | -0.5283 | 0.350                    | -0.5236 | 0.350                      | -0.4691 |
| 0.400                       | -0.4887 | 0.400                    | -0.5187 | 0.400                      | -0.4627 |
| 0.450                       | -0.4392 | 0.450                    | -0.4754 | 0.450                      | -0.4440 |
| 0.500                       | -0.4295 | 0.500                    | -0.4664 | 0.500                      | -0.4126 |
| 0.550                       | -0.3840 | 0.550                    | -0.4696 | 0.550                      | -0.4268 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3712 | 0.005 | 0.3202  | 0.005 | 0.1695  |
| 0.010 | 0.1001 | 0.010 | -0.0180 | 0.010 | -0.2505 |



Flight 21 Test point 52

Sweep, deg = 20.0 Mach = 0.61 hp, ft = 10100. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = 0.8 QBAR, lb/ft<sup>2</sup> = 373.4 Rnpu = 3480000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9020  | 0.000                    | 0.9352  | 0.000                      | 0.9444  |
| 0.005                       | -0.1279 | 0.005                    | -0.0459 | 0.005                      | 0.3053  |
| 0.010                       | -0.4005 | 0.010                    | -0.3203 | 0.010                      | -0.0069 |
| 0.020                       | -0.6125 | 0.020                    | -0.5389 | 0.020                      | -0.3460 |
| 0.040                       | -0.7104 | 0.040                    | -0.6326 | 0.040                      | -0.4646 |
| 0.060                       | -0.7056 | 0.060                    | -0.6268 | 0.060                      | -0.5081 |
| 0.080                       | -0.6972 | 0.080                    | -0.6273 | 0.080                      | -0.5103 |
| 0.100                       | -0.6882 | 0.100                    | -0.6213 | 0.100                      | -0.5132 |
| 0.125                       | -0.5960 | 0.125                    | -0.6138 | 0.125                      | -0.5051 |
| 0.150                       | -0.6626 | 0.150                    | -0.6068 | 0.150                      | -0.5194 |
| 0.175                       | -0.6426 | 0.175                    | -0.6212 | 0.175                      | -0.5301 |
| 0.200                       | -0.6738 | 0.200                    | -0.6266 | 0.200                      | -0.5159 |
| 0.250                       | -0.6636 | 0.250                    | -0.6458 | 0.250                      | -0.5394 |
| 0.300                       | -0.6420 | 0.300                    | -0.6288 | 0.300                      | -0.5311 |
| 0.350                       | -0.5867 | 0.350                    | -0.5931 | 0.350                      | -0.5306 |
| 0.400                       | -0.5394 | 0.400                    | -0.5773 | 0.400                      | -0.5158 |
| 0.450                       | -0.4841 | 0.450                    | -0.5299 | 0.450                      | -0.4938 |
| 0.500                       | -0.4702 | 0.500                    | -0.5130 | 0.500                      | -0.4633 |
| 0.550                       | -0.4149 | 0.550                    | -0.5066 | 0.550                      | -0.4720 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5100 | 0.005 | 0.5008 | 0.005 | 0.3977 |
| 0.010 | 0.2658 | 0.010 | 0.2116 | 0.010 | 0.0375 |

Fight 22 Test point 1

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 4.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 173.4 Rrho = 1677000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.3887  | 0.000                    | 0.3780  | 0.000                      | 0.4147  |
| 0.005                       | -0.9997 | 0.005                    | -1.0128 | 0.005                      | -0.6421 |
| 0.010                       | -1.2335 | 0.010                    | -1.2872 | 0.010                      | -1.0169 |
| 0.020                       | -1.4110 | 0.020                    | -1.4501 | 0.020                      | -1.3497 |
| 0.040                       | -1.4755 | 0.040                    | -1.5133 | 0.040                      | -1.4717 |
| 0.060                       | -1.4924 | 0.060                    | -1.4864 | 0.060                      | -1.3458 |
| 0.080                       | -1.2057 | 0.080                    | -1.3020 | 0.080                      | -1.0338 |
| 0.100                       | -0.9238 | 0.100                    | -0.9073 | 0.100                      | -0.8896 |
| 0.125                       | -0.7881 | 0.125                    | -0.8811 | 0.125                      | -0.8534 |
| 0.150                       | -0.8877 | 0.150                    | -0.8824 | 0.150                      | -0.8044 |
| 0.175                       | -0.8163 | 0.175                    | -0.8590 | 0.175                      | -0.7969 |
| 0.200                       | -0.8329 | 0.200                    | -0.8502 | 0.200                      | -0.7418 |
| 0.250                       | -0.7994 | 0.250                    | -0.8220 | 0.250                      | -0.7266 |
| 0.300                       | -0.7348 | 0.300                    | -0.7537 | 0.300                      | -0.6543 |
| 0.350                       | -0.6512 | 0.350                    | -0.6627 | 0.350                      | -0.6241 |
| 0.400                       | -0.5752 | 0.400                    | -0.6288 | 0.400                      | -0.5675 |
| 0.450                       | -0.5010 | 0.450                    | -0.5416 | 0.450                      | -0.5199 |
| 0.500                       | -0.4781 | 0.500                    | -0.5098 | 0.500                      | -0.4629 |
| 0.550                       | -0.3884 | 0.550                    | -0.4719 | 0.550                      | -0.4363 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.6662 | 0.005 | 0.7396 | 0.005 | 0.7066 |
| 0.010 | 0.5743 | 0.010 | 0.6068 | 0.010 | 0.5797 |

Fight 22 Test point 2

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 35100. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 168.1 Rnpu = 1641000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7094  | 0.000                    | 0.7487  | 0.000                      | 0.7501  |
| 0.005                       | 0.0621  | 0.005                    | 0.0735  | 0.005                      | 0.3132  |
| 0.010                       | -0.1525 | 0.010                    | -0.1046 | 0.010                      | 0.0756  |
| 0.020                       | -0.3252 | 0.020                    | -0.3019 | 0.020                      | -0.1779 |
| 0.040                       | -0.4333 | 0.040                    | -0.3999 | 0.040                      | -0.3017 |
| 0.060                       | -0.4618 | 0.060                    | -0.4112 | 0.060                      | -0.3506 |
| 0.080                       | -0.4763 | 0.080                    | -0.4208 | 0.080                      | -0.3611 |
| 0.100                       | -0.4663 | 0.100                    | -0.4258 | 0.100                      | -0.3606 |
| 0.125                       | -0.4281 | 0.125                    | -0.4232 | 0.125                      | -0.3637 |
| 0.150                       | -0.4838 | 0.150                    | -0.4530 | 0.150                      | -0.3827 |
| 0.175                       | -0.4781 | 0.175                    | -0.4637 | 0.175                      | -0.4074 |
| 0.200                       | -0.5044 | 0.200                    | -0.4797 | 0.200                      | -0.3798 |
| 0.250                       | -0.5168 | 0.250                    | -0.5120 | 0.250                      | -0.4227 |
| 0.300                       | -0.4876 | 0.300                    | -0.4969 | 0.300                      | -0.4142 |
| 0.350                       | -0.4585 | 0.350                    | -0.4553 | 0.350                      | -0.4182 |
| 0.400                       | -0.4218 | 0.400                    | -0.4604 | 0.400                      | -0.4046 |
| 0.450                       | -0.3828 | 0.450                    | -0.4087 | 0.450                      | -0.3935 |
| 0.500                       | -0.3829 | 0.500                    | -0.4104 | 0.500                      | -0.3692 |
| 0.550                       | -0.3239 | 0.550                    | -0.3982 | 0.550                      | -0.3709 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.2479 | 0.005 | 0.3143 | 0.005 | 0.2356  |
| 0.010 | 0.0476 | 0.010 | 0.0478 | 0.010 | -0.0749 |

Fight 22 Test point 3

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 34500. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 173.4 Rnpu = 1683000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7018  | 0.000                    | 0.7370  | 0.000                      | 0.7353  |
| 0.005                       | -0.0216 | 0.005                    | -0.0071 | 0.005                      | 0.2497  |
| 0.010                       | -0.2317 | 0.010                    | -0.1884 | 0.010                      | -0.0010 |
| 0.020                       | -0.4002 | 0.020                    | -0.3730 | 0.020                      | -0.2563 |
| 0.040                       | -0.4979 | 0.040                    | -0.4633 | 0.040                      | -0.3645 |
| 0.060                       | -0.5156 | 0.060                    | -0.4700 | 0.060                      | -0.4042 |
| 0.080                       | -0.5214 | 0.080                    | -0.4811 | 0.080                      | -0.4073 |
| 0.100                       | -0.5013 | 0.100                    | -0.4751 | 0.100                      | -0.4069 |
| 0.125                       | -0.4582 | 0.125                    | -0.4634 | 0.125                      | -0.4042 |
| 0.150                       | -0.5142 | 0.150                    | -0.4877 | 0.150                      | -0.4217 |
| 0.175                       | -0.5072 | 0.175                    | -0.5044 | 0.175                      | -0.4367 |
| 0.200                       | -0.5318 | 0.200                    | -0.5143 | 0.200                      | -0.4144 |
| 0.250                       | -0.5374 | 0.250                    | -0.5356 | 0.250                      | -0.4488 |
| 0.300                       | -0.5138 | 0.300                    | -0.5168 | 0.300                      | -0.4328 |
| 0.350                       | -0.4863 | 0.350                    | -0.4732 | 0.350                      | -0.4404 |
| 0.400                       | -0.4409 | 0.400                    | -0.4808 | 0.400                      | -0.4210 |
| 0.450                       | -0.3972 | 0.450                    | -0.4308 | 0.450                      | -0.4067 |
| 0.500                       | -0.3862 | 0.500                    | -0.4238 | 0.500                      | -0.3777 |
| 0.550                       | -0.3318 | 0.550                    | -0.4057 | 0.550                      | -0.3777 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3060 | 0.005 | 0.3682 | 0.005 | 0.2975 |
| 0.010 | 0.1060 | 0.010 | 0.1037 | 0.010 | 0.0045 |

Fight 22 Test point 4

Sweep, deg = 30.0 Mach = 0.71 hp, ft = 34900. Angle of attack, deg = 4.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 173.9 Rnpu = 1676000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.5258  | 0.000                    | 0.5238  | 0.000                      | 0.5593  |
| 0.005                       | -0.8897 | 0.005                    | -0.8921 | 0.005                      | -0.5115 |
| 0.010                       | -1.1379 | 0.010                    | -1.1729 | 0.010                      | -0.8958 |
| 0.020                       | -1.3574 | 0.020                    | -1.3496 | 0.020                      | -1.2728 |
| 0.040                       | -1.4678 | 0.040                    | -1.4726 | 0.040                      | -1.4110 |
| 0.060                       | -1.5216 | 0.060                    | -1.4855 | 0.060                      | -1.3631 |
| 0.080                       | -1.4633 | 0.080                    | -1.4676 | 0.080                      | -1.3311 |
| 0.100                       | -1.4100 | 0.100                    | -1.4430 | 0.100                      | -1.2765 |
| 0.125                       | -1.1259 | 0.125                    | -1.3499 | 0.125                      | -1.0240 |
| 0.150                       | -0.7894 | 0.150                    | -0.8095 | 0.150                      | -0.7674 |
| 0.175                       | -0.8021 | 0.175                    | -0.7876 | 0.175                      | -0.8403 |
| 0.200                       | -0.8583 | 0.200                    | -0.8474 | 0.200                      | -0.7922 |
| 0.250                       | -0.9011 | 0.250                    | -0.9470 | 0.250                      | -0.7875 |
| 0.300                       | -0.8092 | 0.300                    | -0.8412 | 0.300                      | -0.7216 |
| 0.350                       | -0.7164 | 0.350                    | -0.7419 | 0.350                      | -0.6896 |
| 0.400                       | -0.6314 | 0.400                    | -0.6969 | 0.400                      | -0.6276 |
| 0.450                       | -0.5483 | 0.450                    | -0.5996 | 0.450                      | -0.5757 |
| 0.500                       | -0.5165 | 0.500                    | -0.5559 | 0.500                      | -0.4995 |
| 0.550                       | -0.4262 | 0.550                    | -0.5197 | 0.550                      | -0.4576 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.7294 | 0.005 | 0.8028 | 0.005 | 0.7637 |
| 0.010 | 0.6097 | 0.010 | 0.6387 | 0.010 | 0.6033 |

Flight 22 Test point 5

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 34800. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 170.3 Rnpu = 1659000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8015  | 0.000                    | 0.8528  | 0.000                      | 0.8398  |
| 0.005                       | 0.1770  | 0.005                    | 0.2107  | 0.005                      | 0.4524  |
| 0.010                       | -0.0600 | 0.010                    | 0.0063  | 0.010                      | 0.2042  |
| 0.020                       | -0.2560 | 0.020                    | -0.2171 | 0.020                      | -0.0819 |
| 0.040                       | -0.4030 | 0.040                    | -0.3527 | 0.040                      | -0.2330 |
| 0.060                       | -0.4498 | 0.060                    | -0.3861 | 0.060                      | -0.3111 |
| 0.080                       | -0.4690 | 0.080                    | -0.4090 | 0.080                      | -0.3345 |
| 0.100                       | -0.4697 | 0.100                    | -0.4267 | 0.100                      | -0.3490 |
| 0.125                       | -0.4362 | 0.125                    | -0.4287 | 0.125                      | -0.3527 |
| 0.150                       | -0.5031 | 0.150                    | -0.4607 | 0.150                      | -0.3836 |
| 0.175                       | -0.4970 | 0.175                    | -0.4728 | 0.175                      | -0.4114 |
| 0.200                       | -0.5359 | 0.200                    | -0.4971 | 0.200                      | -0.3859 |
| 0.250                       | -0.5417 | 0.250                    | -0.5453 | 0.250                      | -0.4468 |
| 0.300                       | -0.5227 | 0.300                    | -0.5299 | 0.300                      | -0.4344 |
| 0.350                       | -0.4968 | 0.350                    | -0.4926 | 0.350                      | -0.4497 |
| 0.400                       | -0.4616 | 0.400                    | -0.4956 | 0.400                      | -0.4360 |
| 0.450                       | -0.4168 | 0.450                    | -0.4420 | 0.450                      | -0.4221 |
| 0.500                       | -0.4105 | 0.500                    | -0.4389 | 0.500                      | -0.3943 |
| 0.550                       | -0.3515 | 0.550                    | -0.4380 | 0.550                      | -0.3922 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2176  | 0.005 | 0.2603  | 0.005 | 0.1663  |
| 0.010 | -0.0148 | 0.010 | -0.0541 | 0.010 | -0.1970 |

Flight 22 Test point 6

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 33700. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 180.8 Rnpu = 1740000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7897  | 0.000                    | 0.8387  | 0.000                      | 0.8382  |
| 0.005                       | 0.0188  | 0.005                    | 0.0513  | 0.005                      | 0.3265  |
| 0.010                       | -0.2126 | 0.010                    | -0.1610 | 0.010                      | 0.0551  |
| 0.020                       | -0.4138 | 0.020                    | -0.3764 | 0.020                      | -0.2318 |
| 0.040                       | -0.5404 | 0.040                    | -0.4898 | 0.040                      | -0.3678 |
| 0.060                       | -0.5641 | 0.060                    | -0.5092 | 0.060                      | -0.4300 |
| 0.080                       | -0.5730 | 0.080                    | -0.5180 | 0.080                      | -0.4428 |
| 0.100                       | -0.5588 | 0.100                    | -0.5141 | 0.100                      | -0.4411 |
| 0.125                       | -0.5103 | 0.125                    | -0.5132 | 0.125                      | -0.4413 |
| 0.150                       | -0.5779 | 0.150                    | -0.5398 | 0.150                      | -0.4534 |
| 0.175                       | -0.5664 | 0.175                    | -0.5589 | 0.175                      | -0.4778 |
| 0.200                       | -0.5984 | 0.200                    | -0.5712 | 0.200                      | -0.4618 |
| 0.250                       | -0.6028 | 0.250                    | -0.5992 | 0.250                      | -0.5021 |
| 0.300                       | -0.5790 | 0.300                    | -0.5806 | 0.300                      | -0.4937 |
| 0.350                       | -0.5393 | 0.350                    | -0.5356 | 0.350                      | -0.4939 |
| 0.400                       | -0.4969 | 0.400                    | -0.5410 | 0.400                      | -0.4698 |
| 0.450                       | -0.4472 | 0.450                    | -0.4760 | 0.450                      | -0.4532 |
| 0.500                       | -0.4341 | 0.500                    | -0.4771 | 0.500                      | -0.4192 |
| 0.550                       | -0.3728 | 0.550                    | -0.4627 | 0.550                      | -0.4180 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3460 | 0.005 | 0.3922 | 0.005 | 0.3069  |
| 0.010 | 0.1267 | 0.010 | 0.1043 | 0.010 | -0.0270 |

Fight 22 Test point 7

Sweep, deg = 25.2 Mach = 0.71 hp, ft = 34900, Angle of attack, deg = 3.7  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 173.6 Rnpu = 1676000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7124  | 0.000                    | 0.7313  | 0.000                      | 0.7661  |
| 0.005                       | -0.6154 | 0.005                    | -0.5956 | 0.005                      | -0.2046 |
| 0.010                       | -0.9040 | 0.010                    | -0.8784 | 0.010                      | -0.5816 |
| 0.020                       | -1.1336 | 0.020                    | -1.0882 | 0.020                      | -1.0083 |
| 0.040                       | -1.2821 | 0.040                    | -1.2701 | 0.040                      | -1.0567 |
| 0.060                       | -1.3383 | 0.060                    | -1.2699 | 0.060                      | -1.0896 |
| 0.080                       | -1.2993 | 0.080                    | -1.2317 | 0.080                      | -1.0474 |
| 0.100                       | -1.2404 | 0.100                    | -1.1901 | 0.100                      | -1.0308 |
| 0.125                       | -0.9963 | 0.125                    | -1.0717 | 0.125                      | -0.8069 |
| 0.150                       | -0.9463 | 0.150                    | -0.7725 | 0.150                      | -0.8698 |
| 0.175                       | -0.8184 | 0.175                    | -0.8982 | 0.175                      | -0.8439 |
| 0.200                       | -0.9112 | 0.200                    | -0.9549 | 0.200                      | -0.8016 |
| 0.250                       | -0.9556 | 0.250                    | -1.1227 | 0.250                      | -0.8078 |
| 0.300                       | -0.8440 | 0.300                    | -0.8317 | 0.300                      | -0.7460 |
| 0.350                       | -0.7463 | 0.350                    | -0.7632 | 0.350                      | -0.7165 |
| 0.400                       | -0.6524 | 0.400                    | -0.7349 | 0.400                      | -0.6518 |
| 0.450                       | -0.5681 | 0.450                    | -0.6311 | 0.450                      | -0.6045 |
| 0.500                       | -0.5318 | 0.500                    | -0.5932 | 0.500                      | -0.5275 |
| 0.550                       | -0.4410 | 0.550                    | -0.5449 | 0.550                      | -0.4816 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.7399 | 0.005 | 0.7939 | 0.005 | 0.7512 |
| 0.010 | 0.5723 | 0.010 | 0.5769 | 0.010 | 0.5112 |



Fight 22 Test point 8

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 34700. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 174.1 Rnpu = 1683000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8844  | 0.000                    | 0.9336  | 0.000                      | 0.9201  |
| 0.005                       | 0.2148  | 0.005                    | 0.2563  | 0.005                      | 0.5133  |
| 0.010                       | -0.0410 | 0.010                    | 0.0313  | 0.010                      | 0.2450  |
| 0.020                       | -0.2650 | 0.020                    | -0.2178 | 0.020                      | -0.0700 |
| 0.040                       | -0.4374 | 0.040                    | -0.3727 | 0.040                      | -0.2396 |
| 0.060                       | -0.4909 | 0.060                    | -0.4197 | 0.060                      | -0.3279 |
| 0.080                       | -0.5192 | 0.080                    | -0.4459 | 0.080                      | -0.3526 |
| 0.100                       | -0.5178 | 0.100                    | -0.4642 | 0.100                      | -0.3760 |
| 0.125                       | -0.4902 | 0.125                    | -0.4747 | 0.125                      | -0.3857 |
| 0.150                       | -0.5617 | 0.150                    | -0.5081 | 0.150                      | -0.4170 |
| 0.175                       | -0.5572 | 0.175                    | -0.5341 | 0.175                      | -0.4487 |
| 0.200                       | -0.6015 | 0.200                    | -0.5599 | 0.200                      | -0.4324 |
| 0.250                       | -0.6107 | 0.250                    | -0.6126 | 0.250                      | -0.4961 |
| 0.300                       | -0.5968 | 0.300                    | -0.5988 | 0.300                      | -0.4818 |
| 0.350                       | -0.5651 | 0.350                    | -0.5500 | 0.350                      | -0.5011 |
| 0.400                       | -0.5108 | 0.400                    | -0.5678 | 0.400                      | -0.4815 |
| 0.450                       | -0.4558 | 0.450                    | -0.5046 | 0.450                      | -0.4681 |
| 0.500                       | -0.4447 | 0.500                    | -0.4944 | 0.500                      | -0.4309 |
| 0.550                       | -0.3862 | 0.550                    | -0.4731 | 0.550                      | -0.4183 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2572  | 0.005 | 0.2865  | 0.005 | 0.1906  |
| 0.010 | -0.0051 | 0.010 | -0.0452 | 0.010 | -0.2066 |

Fight 22 Test point 9

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 34300. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 177.8 Rnpu = 1713000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8806  | 0.000                    | 0.9288  | 0.000                      | 0.9171  |
| 0.005                       | 0.0629  | 0.005                    | 0.0985  | 0.005                      | 0.3976  |
| 0.010                       | -0.1928 | 0.010                    | -0.1283 | 0.010                      | 0.1091  |
| 0.020                       | -0.4228 | 0.020                    | -0.3754 | 0.020                      | -0.2170 |
| 0.040                       | -0.5773 | 0.040                    | -0.5089 | 0.040                      | -0.3751 |
| 0.060                       | -0.6083 | 0.060                    | -0.5357 | 0.060                      | -0.4432 |
| 0.080                       | -0.6193 | 0.080                    | -0.5511 | 0.080                      | -0.4611 |
| 0.100                       | -0.6146 | 0.100                    | -0.5584 | 0.100                      | -0.4680 |
| 0.125                       | -0.5618 | 0.125                    | -0.5668 | 0.125                      | -0.4717 |
| 0.150                       | -0.6388 | 0.150                    | -0.5933 | 0.150                      | -0.5002 |
| 0.175                       | -0.6265 | 0.175                    | -0.6165 | 0.175                      | -0.5209 |
| 0.200                       | -0.6734 | 0.200                    | -0.6229 | 0.200                      | -0.5073 |
| 0.250                       | -0.6708 | 0.250                    | -0.6753 | 0.250                      | -0.5491 |
| 0.300                       | -0.6474 | 0.300                    | -0.6463 | 0.300                      | -0.5370 |
| 0.350                       | -0.5995 | 0.350                    | -0.5994 | 0.350                      | -0.5444 |
| 0.400                       | -0.5445 | 0.400                    | -0.6036 | 0.400                      | -0.5195 |
| 0.450                       | -0.4868 | 0.450                    | -0.5308 | 0.450                      | -0.4961 |
| 0.500                       | -0.4708 | 0.500                    | -0.5181 | 0.500                      | -0.4574 |
| 0.550                       | -0.4041 | 0.550                    | -0.4905 | 0.550                      | -0.4377 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3810 | 0.005 | 0.4314 | 0.005 | 0.3352  |
| 0.010 | 0.1380 | 0.010 | 0.1054 | 0.010 | -0.0312 |

Fight 22 Test point 10

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 3.2  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 173.1 Rnpu = 1674000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8498  | 0.000                    | 0.8901  | 0.000                      | 0.9169  |
| 0.005                       | -0.4213 | 0.005                    | -0.3802 | 0.005                      | 0.0104  |
| 0.010                       | -0.7139 | 0.010                    | -0.6625 | 0.010                      | -0.3634 |
| 0.020                       | -0.9602 | 0.020                    | -0.9054 | 0.020                      | -0.7656 |
| 0.040                       | -1.1339 | 0.040                    | -1.1017 | 0.040                      | -0.8782 |
| 0.060                       | -1.2342 | 0.060                    | -1.0704 | 0.060                      | -0.9560 |
| 0.080                       | -1.1877 | 0.080                    | -1.0348 | 0.080                      | -0.9082 |
| 0.100                       | -1.1590 | 0.100                    | -1.0768 | 0.100                      | -0.9178 |
| 0.125                       | -0.9691 | 0.125                    | -0.9745 | 0.125                      | -0.8087 |
| 0.150                       | -1.0492 | 0.150                    | -0.8692 | 0.150                      | -0.8358 |
| 0.175                       | -0.9691 | 0.175                    | -0.9254 | 0.175                      | -0.8258 |
| 0.200                       | -0.9557 | 0.200                    | -0.9842 | 0.200                      | -0.7929 |
| 0.250                       | -0.9643 | 0.250                    | -1.0738 | 0.250                      | -0.8037 |
| 0.300                       | -0.8665 | 0.300                    | -0.9983 | 0.300                      | -0.7648 |
| 0.350                       | -0.7667 | 0.350                    | -0.7818 | 0.350                      | -0.7358 |
| 0.400                       | -0.6691 | 0.400                    | -0.7455 | 0.400                      | -0.6819 |
| 0.450                       | -0.5810 | 0.450                    | -0.6486 | 0.450                      | -0.6237 |
| 0.500                       | -0.5437 | 0.500                    | -0.6122 | 0.500                      | -0.5481 |
| 0.550                       | -0.4519 | 0.550                    | -0.5667 | 0.550                      | -0.4915 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.7340 | 0.005 | 0.7909 | 0.005 | 0.7242 |
| 0.010 | 0.5369 | 0.010 | 0.5288 | 0.010 | 0.4317 |

Fight 22 Test point 11

Sweep, deg = 20.0 Mach = 0.71 hp, ft = 34800. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 175.3 Rnpu = 1688000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9624  | 0.000                    | 1.0088  | 0.000                      | 1.0036  |
| 0.005                       | 0.1696  | 0.005                    | 0.2225  | 0.005                      | 0.5155  |
| 0.010                       | -0.1037 | 0.010                    | -0.0313 | 0.010                      | 0.2196  |
| 0.020                       | -0.3518 | 0.020                    | -0.2887 | 0.020                      | -0.1260 |
| 0.040                       | -0.5392 | 0.040                    | -0.4614 | 0.040                      | -0.3080 |
| 0.060                       | -0.5929 | 0.060                    | -0.5058 | 0.060                      | -0.4071 |
| 0.080                       | -0.6209 | 0.080                    | -0.5317 | 0.080                      | -0.4270 |
| 0.100                       | -0.6233 | 0.100                    | -0.5518 | 0.100                      | -0.4480 |
| 0.125                       | -0.5746 | 0.125                    | -0.5571 | 0.125                      | -0.4657 |
| 0.150                       | -0.6720 | 0.150                    | -0.5932 | 0.150                      | -0.4943 |
| 0.175                       | -0.6519 | 0.175                    | -0.6343 | 0.175                      | -0.5207 |
| 0.200                       | -0.7091 | 0.200                    | -0.6539 | 0.200                      | -0.5156 |
| 0.250                       | -0.7168 | 0.250                    | -0.7118 | 0.250                      | -0.5723 |
| 0.300                       | -0.6900 | 0.300                    | -0.7008 | 0.300                      | -0.5719 |
| 0.350                       | -0.6393 | 0.350                    | -0.6457 | 0.350                      | -0.5776 |
| 0.400                       | -0.5779 | 0.400                    | -0.6463 | 0.400                      | -0.5480 |
| 0.450                       | -0.5113 | 0.450                    | -0.5602 | 0.450                      | -0.5331 |
| 0.500                       | -0.4895 | 0.500                    | -0.5494 | 0.500                      | -0.4836 |
| 0.550                       | -0.4118 | 0.550                    | -0.5196 | 0.550                      | -0.4544 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3762 | 0.005 | 0.4042 | 0.005 | 0.2990  |
| 0.010 | 0.1054 | 0.010 | 0.0532 | 0.010 | -0.1152 |

Fight 22 Test point 12

Sweep, deg = 20.0 Mach = 0.76 hp, ft = 34900. Angle of attack, deg = 2.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 199.5 Rnpu = 1811000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9257  | 0.000                    | 0.9638  | 0.000                      | 0.9703  |
| 0.005                       | -0.1215 | 0.005                    | -0.0836 | 0.005                      | 0.2281  |
| 0.010                       | -0.4080 | 0.010                    | -0.3594 | 0.010                      | -0.1063 |
| 0.020                       | -0.6618 | 0.020                    | -0.6185 | 0.020                      | -0.4981 |
| 0.040                       | -0.8241 | 0.040                    | -0.8107 | 0.040                      | -0.6534 |
| 0.060                       | -0.9447 | 0.060                    | -0.8472 | 0.060                      | -0.7851 |
| 0.080                       | -0.9562 | 0.080                    | -0.8402 | 0.080                      | -0.7468 |
| 0.100                       | -0.9613 | 0.100                    | -0.9200 | 0.100                      | -0.8406 |
| 0.125                       | -0.8406 | 0.125                    | -0.8877 | 0.125                      | -0.8158 |
| 0.150                       | -0.9691 | 0.150                    | -0.9179 | 0.150                      | -0.7276 |
| 0.175                       | -0.9403 | 0.175                    | -0.9266 | 0.175                      | -0.8140 |
| 0.200                       | -1.0167 | 0.200                    | -0.9431 | 0.200                      | -0.8053 |
| 0.250                       | -1.1059 | 0.250                    | -1.0190 | 0.250                      | -0.8949 |
| 0.300                       | -1.1769 | 0.300                    | -1.0820 | 0.300                      | -0.9301 |
| 0.350                       | -1.1380 | 0.350                    | -1.1099 | 0.350                      | -0.9884 |
| 0.400                       | -1.1211 | 0.400                    | -1.1958 | 0.400                      | -1.0137 |
| 0.450                       | -0.5673 | 0.450                    | -1.1904 | 0.450                      | -1.0609 |
| 0.500                       | -0.4682 | 0.500                    | -0.9731 | 0.500                      | -0.5341 |
| 0.550                       | -0.4102 | 0.550                    | -0.3877 | 0.550                      | -0.4383 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.6471 | 0.005 | 0.6793 | 0.005 | 0.6208 |
| 0.010 | 0.4211 | 0.010 | 0.3933 | 0.010 | 0.2949 |

Flight 22 Test point 13

Sweep, deg = 20.0 Mach = 0.76 hp, ft = 35200. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 197.4 Rnpu = 1794000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9747  | 0.000                    | 1.0205  | 0.000                      | 1.0113  |
| 0.005                       | 0.3216  | 0.005                    | 0.3758  | 0.005                      | 0.6125  |
| 0.010                       | 0.0557  | 0.010                    | 0.1262  | 0.010                      | 0.3368  |
| 0.020                       | -0.2002 | 0.020                    | -0.1480 | 0.020                      | -0.0058 |
| 0.040                       | -0.4210 | 0.040                    | -0.3408 | 0.040                      | -0.2073 |
| 0.060                       | -0.4961 | 0.060                    | -0.4098 | 0.060                      | -0.3245 |
| 0.080                       | -0.5424 | 0.080                    | -0.4543 | 0.080                      | -0.3676 |
| 0.100                       | -0.5690 | 0.100                    | -0.4890 | 0.100                      | -0.4011 |
| 0.125                       | -0.5441 | 0.125                    | -0.5063 | 0.125                      | -0.4305 |
| 0.150                       | -0.6393 | 0.150                    | -0.5583 | 0.150                      | -0.4741 |
| 0.175                       | -0.6749 | 0.175                    | -0.6264 | 0.175                      | -0.5127 |
| 0.200                       | -0.7062 | 0.200                    | -0.6617 | 0.200                      | -0.5254 |
| 0.250                       | -0.7984 | 0.250                    | -0.7500 | 0.250                      | -0.6028 |
| 0.300                       | -0.7892 | 0.300                    | -0.7970 | 0.300                      | -0.6198 |
| 0.350                       | -0.7275 | 0.350                    | -0.8080 | 0.350                      | -0.6964 |
| 0.400                       | -0.6250 | 0.400                    | -0.6978 | 0.400                      | -0.5918 |
| 0.450                       | -0.5389 | 0.450                    | -0.5595 | 0.450                      | -0.5649 |
| 0.500                       | -0.4995 | 0.500                    | -0.5673 | 0.500                      | -0.4946 |
| 0.550                       | -0.4299 | 0.550                    | -0.5304 | 0.550                      | -0.4508 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2900 | 0.005 | 0.3056  | 0.005 | 0.2235  |
| 0.010 | 0.0101 | 0.010 | -0.0568 | 0.010 | -0.2061 |

Fight 22 Test point 14

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 35300. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 191.4 Rnpu = 1757000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9689  | 0.000                    | 1.0175  | 0.000                      | 1.0098  |
| 0.005                       | 0.1583  | 0.005                    | 0.2118  | 0.005                      | 0.4876  |
| 0.010                       | -0.1145 | 0.010                    | -0.0424 | 0.010                      | 0.1815  |
| 0.020                       | -0.3744 | 0.020                    | -0.3228 | 0.020                      | -0.1695 |
| 0.040                       | -0.5809 | 0.040                    | -0.4979 | 0.040                      | -0.3616 |
| 0.060                       | -0.6440 | 0.060                    | -0.5591 | 0.060                      | -0.4732 |
| 0.080                       | -0.6723 | 0.080                    | -0.5891 | 0.080                      | -0.4978 |
| 0.100                       | -0.6879 | 0.100                    | -0.6110 | 0.100                      | -0.5178 |
| 0.125                       | -0.6222 | 0.125                    | -0.6173 | 0.125                      | -0.5358 |
| 0.150                       | -0.7381 | 0.150                    | -0.6560 | 0.150                      | -0.5711 |
| 0.175                       | -0.7581 | 0.175                    | -0.7365 | 0.175                      | -0.6076 |
| 0.200                       | -0.8265 | 0.200                    | -0.7481 | 0.200                      | -0.6123 |
| 0.250                       | -0.8904 | 0.250                    | -0.8660 | 0.250                      | -0.6722 |
| 0.300                       | -0.8607 | 0.300                    | -0.8993 | 0.300                      | -0.7044 |
| 0.350                       | -0.7376 | 0.350                    | -0.8709 | 0.350                      | -0.7467 |
| 0.400                       | -0.6314 | 0.400                    | -0.6909 | 0.400                      | -0.6153 |
| 0.450                       | -0.5496 | 0.450                    | -0.5724 | 0.450                      | -0.5841 |
| 0.500                       | -0.5186 | 0.500                    | -0.5824 | 0.500                      | -0.5177 |
| 0.550                       | -0.4388 | 0.550                    | -0.5518 | 0.550                      | -0.4660 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4288 | 0.005 | 0.4503 | 0.005 | 0.3708  |
| 0.010 | 0.1614 | 0.010 | 0.1185 | 0.010 | -0.0234 |

Fight 22 Test point 15

Sweep, deg = 25.3 Mach = 0.75 hp, ft = 34900. Angle of attack, deg = 2.9  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 195.5 R<sub>npu</sub> = 1789000.

Upper surface

| BL 200.8<br>Inboard station |                | BL 260<br>Middle station |                | BL 320<br>Outboard station |                |
|-----------------------------|----------------|--------------------------|----------------|----------------------------|----------------|
| x/c                         | C <sub>p</sub> | x/c                      | C <sub>p</sub> | x/c                        | C <sub>p</sub> |
| 0.000                       | 0.8180         | 0.000                    | 0.8448         | 0.000                      | 0.8525         |
| 0.005                       | -0.2903        | 0.005                    | -0.2668        | 0.005                      | 0.0509         |
| 0.010                       | -0.5573        | 0.010                    | -0.5284        | 0.010                      | -0.2932        |
| 0.020                       | -0.7943        | 0.020                    | -0.7666        | 0.020                      | -0.6751        |
| 0.040                       | -0.9651        | 0.040                    | -0.9543        | 0.040                      | -0.7944        |
| 0.060                       | -1.0439        | 0.060                    | -0.9310        | 0.060                      | -0.8862        |
| 0.080                       | -1.0142        | 0.080                    | -0.9570        | 0.080                      | -0.8577        |
| 0.100                       | -1.0260        | 0.100                    | -0.9806        | 0.100                      | -0.9180        |
| 0.125                       | -0.8681        | 0.125                    | -0.9585        | 0.125                      | -0.8826        |
| 0.150                       | -0.9787        | 0.150                    | -0.9513        | 0.150                      | -0.7318        |
| 0.175                       | -0.9268        | 0.175                    | -0.9446        | 0.175                      | -0.8397        |
| 0.200                       | -0.9973        | 0.200                    | -0.9432        | 0.200                      | -0.8169        |
| 0.250                       | -1.0632        | 0.250                    | -1.0200        | 0.250                      | -0.8879        |
| 0.300                       | -1.0456        | 0.300                    | -1.0604        | 0.300                      | -0.9062        |
| 0.350                       | -0.7373        | 0.350                    | -1.0664        | 0.350                      | -0.9551        |
| 0.400                       | -0.6398        | 0.400                    | -0.7704        | 0.400                      | -0.5623        |
| 0.450                       | -0.5556        | 0.450                    | -0.5199        | 0.450                      | -0.5677        |
| 0.500                       | -0.5217        | 0.500                    | -0.5361        | 0.500                      | -0.5090        |
| 0.550                       | -0.4368        | 0.550                    | -0.5261        | 0.550                      | -0.4674        |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.6445 | 0.005 | 0.6972 | 0.005 | 0.6473 |
| 0.010 | 0.4500 | 0.010 | 0.4514 | 0.010 | 0.3699 |



Fight 22 Test point 16

Sweep, deg = 25.3 Mach = 0.75 hp, ft = 34800. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 198.7 Rnpu = 1809000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8966  | 0.000                    | 0.9362  | 0.000                      | 0.9330  |
| 0.005                       | 0.2567  | 0.005                    | 0.2972  | 0.005                      | 0.5253  |
| 0.010                       | 0.0009  | 0.010                    | 0.0658  | 0.010                      | 0.2641  |
| 0.020                       | -0.2349 | 0.020                    | -0.1986 | 0.020                      | -0.0522 |
| 0.040                       | -0.4288 | 0.040                    | -0.3672 | 0.040                      | -0.2422 |
| 0.060                       | -0.4846 | 0.060                    | -0.4208 | 0.060                      | -0.3375 |
| 0.080                       | -0.5225 | 0.080                    | -0.4576 | 0.080                      | -0.3713 |
| 0.100                       | -0.5426 | 0.100                    | -0.4805 | 0.100                      | -0.4011 |
| 0.125                       | -0.5135 | 0.125                    | -0.4990 | 0.125                      | -0.4125 |
| 0.150                       | -0.6031 | 0.150                    | -0.5421 | 0.150                      | -0.4521 |
| 0.175                       | -0.5967 | 0.175                    | -0.5850 | 0.175                      | -0.4919 |
| 0.200                       | -0.6563 | 0.200                    | -0.6114 | 0.200                      | -0.4843 |
| 0.250                       | -0.6628 | 0.250                    | -0.7066 | 0.250                      | -0.5551 |
| 0.300                       | -0.6706 | 0.300                    | -0.6806 | 0.300                      | -0.5593 |
| 0.350                       | -0.6311 | 0.350                    | -0.6274 | 0.350                      | -0.5682 |
| 0.400                       | -0.5715 | 0.400                    | -0.6266 | 0.400                      | -0.5372 |
| 0.450                       | -0.5026 | 0.450                    | -0.5473 | 0.450                      | -0.5150 |
| 0.500                       | -0.4781 | 0.500                    | -0.5306 | 0.500                      | -0.4613 |
| 0.550                       | -0.4044 | 0.550                    | -0.5064 | 0.550                      | -0.4370 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2633 | 0.005 | 0.2900  | 0.005 | 0.2106  |
| 0.010 | 0.0069 | 0.010 | -0.0462 | 0.010 | -0.1859 |

Fight 22 Test point 17

Sweep, deg = 25.3 Mach = 0.75 hp, ft = 34100. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 203.7 Rnpu = 1850000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8925  | 0.000                    | 0.9310  | 0.000                      | 0.9265  |
| 0.005                       | 0.0949  | 0.005                    | 0.1291  | 0.005                      | 0.4035  |
| 0.010                       | -0.1677 | 0.010                    | -0.1131 | 0.010                      | 0.1109  |
| 0.020                       | -0.4013 | 0.020                    | -0.3644 | 0.020                      | -0.2219 |
| 0.040                       | -0.5837 | 0.040                    | -0.5209 | 0.040                      | -0.3953 |
| 0.060                       | -0.6344 | 0.060                    | -0.5594 | 0.060                      | -0.4816 |
| 0.080                       | -0.6530 | 0.080                    | -0.5919 | 0.080                      | -0.5011 |
| 0.100                       | -0.6660 | 0.100                    | -0.6075 | 0.100                      | -0.5205 |
| 0.125                       | -0.6036 | 0.125                    | -0.6070 | 0.125                      | -0.5315 |
| 0.150                       | -0.6885 | 0.150                    | -0.6439 | 0.150                      | -0.5653 |
| 0.175                       | -0.6833 | 0.175                    | -0.6934 | 0.175                      | -0.5870 |
| 0.200                       | -0.7393 | 0.200                    | -0.7235 | 0.200                      | -0.5774 |
| 0.250                       | -0.7868 | 0.250                    | -0.7955 | 0.250                      | -0.6381 |
| 0.300                       | -0.7075 | 0.300                    | -0.8129 | 0.300                      | -0.6324 |
| 0.350                       | -0.6931 | 0.350                    | -0.6530 | 0.350                      | -0.6226 |
| 0.400                       | -0.6025 | 0.400                    | -0.6662 | 0.400                      | -0.5785 |
| 0.450                       | -0.5294 | 0.450                    | -0.5779 | 0.450                      | -0.5454 |
| 0.500                       | -0.4985 | 0.500                    | -0.5505 | 0.500                      | -0.4843 |
| 0.550                       | -0.4227 | 0.550                    | -0.5241 | 0.550                      | -0.4490 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4017 | 0.005 | 0.4403 | 0.005 | 0.3657 |
| 0.010 | 0.1590 | 0.010 | 0.1291 | 0.010 | 0.0009 |

Fight 22 Test point 18

Sweep, deg = 30.4 Mach = 0.76 hp, ft = 34900. Angle of attack, deg = 3.4  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 200.1 Rnpu = 1816000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.6805  | 0.000                    | 0.6946  | 0.000                      | 0.7074  |
| 0.005                       | -0.4472 | 0.005                    | -0.4561 | 0.005                      | -0.1387 |
| 0.010                       | -0.7021 | 0.010                    | -0.7008 | 0.010                      | -0.4764 |
| 0.020                       | -0.9173 | 0.020                    | -0.9012 | 0.020                      | -0.8740 |
| 0.040                       | -1.0569 | 0.040                    | -1.0741 | 0.040                      | -0.9306 |
| 0.060                       | -1.1084 | 0.060                    | -1.0911 | 0.060                      | -0.9753 |
| 0.080                       | -1.0915 | 0.080                    | -1.0759 | 0.080                      | -1.0458 |
| 0.100                       | -1.0702 | 0.100                    | -1.0757 | 0.100                      | -0.9986 |
| 0.125                       | -0.8853 | 0.125                    | -1.0330 | 0.125                      | -1.0149 |
| 0.150                       | -0.9639 | 0.150                    | -1.0170 | 0.150                      | -0.9003 |
| 0.175                       | -0.9171 | 0.175                    | -1.0018 | 0.175                      | -0.9293 |
| 0.200                       | -0.9233 | 0.200                    | -0.9770 | 0.200                      | -0.8179 |
| 0.250                       | -1.0071 | 0.250                    | -0.9881 | 0.250                      | -0.8432 |
| 0.300                       | -0.8072 | 0.300                    | -0.9663 | 0.300                      | -0.6139 |
| 0.350                       | -0.7967 | 0.350                    | -0.7453 | 0.350                      | -0.6726 |
| 0.400                       | -0.6217 | 0.400                    | -0.6344 | 0.400                      | -0.6052 |
| 0.450                       | -0.5344 | 0.450                    | -0.5711 | 0.450                      | -0.5548 |
| 0.500                       | -0.5007 | 0.500                    | -0.5476 | 0.500                      | -0.4870 |
| 0.550                       | -0.4213 | 0.550                    | -0.5098 | 0.550                      | -0.4454 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.6362 | 0.005 | 0.6887 | 0.005 | 0.6610 |
| 0.010         | 0.4726 | 0.010 | 0.4806 | 0.010 | 0.4386 |

Flight 22 Test point 19

Sweep, deg = 30.4 Mach = 0.75 hp, ft = 34000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 206.2 Rnpu = 1869000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8029  | 0.000                    | 0.8414  | 0.000                      | 0.8347  |
| 0.005                       | 0.2048  | 0.005                    | 0.2227  | 0.005                      | 0.4567  |
| 0.010                       | -0.0237 | 0.010                    | 0.0226  | 0.010                      | 0.2065  |
| 0.020                       | -0.2369 | 0.020                    | -0.2089 | 0.020                      | -0.0754 |
| 0.040                       | -0.3988 | 0.040                    | -0.3568 | 0.040                      | -0.2422 |
| 0.060                       | -0.4475 | 0.060                    | -0.3993 | 0.060                      | -0.3183 |
| 0.080                       | -0.4718 | 0.080                    | -0.4296 | 0.080                      | -0.3522 |
| 0.100                       | -0.4842 | 0.100                    | -0.4416 | 0.100                      | -0.3719 |
| 0.125                       | -0.4623 | 0.125                    | -0.4451 | 0.125                      | -0.3794 |
| 0.150                       | -0.5353 | 0.150                    | -0.4881 | 0.150                      | -0.4078 |
| 0.175                       | -0.5265 | 0.175                    | -0.5199 | 0.175                      | -0.4420 |
| 0.200                       | -0.5678 | 0.200                    | -0.5422 | 0.200                      | -0.4259 |
| 0.250                       | -0.5895 | 0.250                    | -0.5922 | 0.250                      | -0.4814 |
| 0.300                       | -0.5740 | 0.300                    | -0.5778 | 0.300                      | -0.4815 |
| 0.350                       | -0.5473 | 0.350                    | -0.5351 | 0.350                      | -0.4939 |
| 0.400                       | -0.4993 | 0.400                    | -0.5362 | 0.400                      | -0.4722 |
| 0.450                       | -0.4464 | 0.450                    | -0.4802 | 0.450                      | -0.4506 |
| 0.500                       | -0.4259 | 0.500                    | -0.4693 | 0.500                      | -0.4115 |
| 0.550                       | -0.3704 | 0.550                    | -0.4546 | 0.550                      | -0.4017 |

| Lower surface |         |       |         |       |         |
|---------------|---------|-------|---------|-------|---------|
| 0.005         | 0.2231  | 0.005 | 0.2641  | 0.005 | 0.1889  |
| 0.010         | -0.0150 | 0.010 | -0.0474 | 0.010 | -0.1714 |

Fight 22 Test point 20

Sweep, deg = 30.4 Mach = 0.76 hp, ft = 33800. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 210.4 Rnpu = 1895000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7924  | 0.000                    | 0.8371  | 0.000                      | 0.8308  |
| 0.005                       | 0.0296  | 0.005                    | 0.0504  | 0.005                      | 0.3054  |
| 0.010                       | -0.2055 | 0.010                    | -0.1716 | 0.010                      | 0.0337  |
| 0.020                       | -0.4180 | 0.020                    | -0.3964 | 0.020                      | -0.2676 |
| 0.040                       | -0.5648 | 0.040                    | -0.5309 | 0.040                      | -0.4067 |
| 0.060                       | -0.5937 | 0.060                    | -0.5580 | 0.060                      | -0.4736 |
| 0.080                       | -0.6073 | 0.080                    | -0.5712 | 0.080                      | -0.4920 |
| 0.100                       | -0.6082 | 0.100                    | -0.5743 | 0.100                      | -0.5007 |
| 0.125                       | -0.5546 | 0.125                    | -0.5608 | 0.125                      | -0.4975 |
| 0.150                       | -0.6363 | 0.150                    | -0.5980 | 0.150                      | -0.5237 |
| 0.175                       | -0.6122 | 0.175                    | -0.6258 | 0.175                      | -0.5487 |
| 0.200                       | -0.6620 | 0.200                    | -0.6424 | 0.200                      | -0.5264 |
| 0.250                       | -0.6853 | 0.250                    | -0.7161 | 0.250                      | -0.5732 |
| 0.300                       | -0.6602 | 0.300                    | -0.6831 | 0.300                      | -0.5637 |
| 0.350                       | -0.6138 | 0.350                    | -0.6066 | 0.350                      | -0.5582 |
| 0.400                       | -0.5435 | 0.400                    | -0.5972 | 0.400                      | -0.5243 |
| 0.450                       | -0.4828 | 0.450                    | -0.5265 | 0.450                      | -0.4934 |
| 0.500                       | -0.4554 | 0.500                    | -0.5086 | 0.500                      | -0.4410 |
| 0.550                       | -0.3931 | 0.550                    | -0.4829 | 0.550                      | -0.4225 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3671 | 0.005 | 0.4105 | 0.005 | 0.3486 |
| 0.010 | 0.1479 | 0.010 | 0.1249 | 0.010 | 0.0280 |

Flight 22 Test point 21

Sweep, deg = 34.7 Mach = 0.75 hp, ft = 34900. Angle of attack, deg = 3.4  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 197.5 Rnpu = 1804000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.5759  | 0.000                    | 0.5802  | 0.000                      | 0.5951  |
| 0.005                       | -0.5514 | 0.005                    | -0.5850 | 0.005                      | -0.2583 |
| 0.010                       | -0.7923 | 0.010                    | -0.8103 | 0.010                      | -0.5810 |
| 0.020                       | -0.9721 | 0.020                    | -0.9833 | 0.020                      | -0.9583 |
| 0.040                       | -1.0668 | 0.040                    | -1.1061 | 0.040                      | -0.9651 |
| 0.060                       | -1.0904 | 0.060                    | -1.0839 | 0.060                      | -0.9869 |
| 0.080                       | -0.9627 | 0.080                    | -0.9972 | 0.080                      | -0.8619 |
| 0.100                       | -0.9316 | 0.100                    | -0.8420 | 0.100                      | -0.9082 |
| 0.125                       | -0.7454 | 0.125                    | -0.8532 | 0.125                      | -0.7234 |
| 0.150                       | -0.7706 | 0.150                    | -0.8555 | 0.150                      | -0.7992 |
| 0.175                       | -0.7745 | 0.175                    | -0.8631 | 0.175                      | -0.7689 |
| 0.200                       | -0.8318 | 0.200                    | -0.8142 | 0.200                      | -0.6760 |
| 0.250                       | -0.8263 | 0.250                    | -0.7658 | 0.250                      | -0.7161 |
| 0.300                       | -0.7443 | 0.300                    | -0.7842 | 0.300                      | -0.6433 |
| 0.350                       | -0.6511 | 0.350                    | -0.6501 | 0.350                      | -0.6033 |
| 0.400                       | -0.5743 | 0.400                    | -0.6174 | 0.400                      | -0.5491 |
| 0.450                       | -0.5030 | 0.450                    | -0.5449 | 0.450                      | -0.5031 |
| 0.500                       | -0.4678 | 0.500                    | -0.5040 | 0.500                      | -0.4430 |
| 0.550                       | -0.3929 | 0.550                    | -0.4688 | 0.550                      | -0.4181 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.5997 | 0.005 | 0.6617 | 0.005 | 0.6365 |
| 0.010         | 0.4595 | 0.010 | 0.4784 | 0.010 | 0.4449 |

Fight 22 Test point 22

Sweep, deg = 34.7 Mach = 0.75 hp, ft = 34000. Angle of attack, deg = -0.5  
 Angle of sideslip, deg = 0.4 QBAR, lb/ft<sup>2</sup> = 204.2 Rnpu = 1858000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.6996  | 0.000                    | 0.7434  | 0.000                      | 0.7347  |
| 0.005                       | 0.3036  | 0.005                    | 0.3273  | 0.005                      | 0.5164  |
| 0.010                       | 0.1052  | 0.010                    | 0.1575  | 0.010                      | 0.3158  |
| 0.020                       | -0.0812 | 0.020                    | -0.0596 | 0.020                      | 0.0656  |
| 0.040                       | -0.2425 | 0.040                    | -0.1937 | 0.040                      | -0.0941 |
| 0.060                       | -0.2977 | 0.060                    | -0.2465 | 0.060                      | -0.1752 |
| 0.080                       | -0.3366 | 0.080                    | -0.2841 | 0.080                      | -0.2127 |
| 0.100                       | -0.3474 | 0.100                    | -0.3035 | 0.100                      | -0.2341 |
| 0.125                       | -0.3476 | 0.125                    | -0.3121 | 0.125                      | -0.2554 |
| 0.150                       | -0.3975 | 0.150                    | -0.3552 | 0.150                      | -0.2840 |
| 0.175                       | -0.4064 | 0.175                    | -0.3824 | 0.175                      | -0.3151 |
| 0.200                       | -0.4448 | 0.200                    | -0.4019 | 0.200                      | -0.3104 |
| 0.250                       | -0.4591 | 0.250                    | -0.4469 | 0.250                      | -0.3631 |
| 0.300                       | -0.4493 | 0.300                    | -0.4447 | 0.300                      | -0.3659 |
| 0.350                       | -0.4426 | 0.350                    | -0.4171 | 0.350                      | -0.3855 |
| 0.400                       | -0.4070 | 0.400                    | -0.4342 | 0.400                      | -0.3753 |
| 0.450                       | -0.3667 | 0.450                    | -0.3924 | 0.450                      | -0.3668 |
| 0.500                       | -0.3647 | 0.500                    | -0.3965 | 0.500                      | -0.3457 |
| 0.550                       | -0.3191 | 0.550                    | -0.3897 | 0.550                      | -0.3581 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.0198  | 0.005 | 0.0573  | 0.005 | -0.0287 |
| 0.010 | -0.2056 | 0.010 | -0.2444 | 0.010 | -0.3931 |

Fight 22 Test point 23

Sweep, deg = 34.6 Mach = 0.75 hp, ft = 33700. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 208.9 Rrho = 1886000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7204  | 0.000                    | 0.7569  | 0.000                      | 0.7506  |
| 0.005                       | 0.0716  | 0.005                    | 0.0801  | 0.005                      | 0.3147  |
| 0.010                       | -0.1402 | 0.010                    | -0.1042 | 0.010                      | 0.0744  |
| 0.020                       | -0.3287 | 0.020                    | -0.3148 | 0.020                      | -0.1923 |
| 0.040                       | -0.4553 | 0.040                    | -0.4145 | 0.040                      | -0.3230 |
| 0.060                       | -0.4855 | 0.060                    | -0.4435 | 0.060                      | -0.3814 |
| 0.080                       | -0.5075 | 0.080                    | -0.4683 | 0.080                      | -0.3962 |
| 0.100                       | -0.5041 | 0.100                    | -0.4694 | 0.100                      | -0.4068 |
| 0.125                       | -0.4668 | 0.125                    | -0.4687 | 0.125                      | -0.4667 |
| 0.150                       | -0.5309 | 0.150                    | -0.4983 | 0.150                      | -0.4250 |
| 0.175                       | -0.5232 | 0.175                    | -0.5224 | 0.175                      | -0.4511 |
| 0.200                       | -0.5560 | 0.200                    | -0.5265 | 0.200                      | -0.4328 |
| 0.250                       | -0.5642 | 0.250                    | -0.5707 | 0.250                      | -0.4756 |
| 0.300                       | -0.5503 | 0.300                    | -0.5461 | 0.300                      | -0.4590 |
| 0.350                       | -0.5135 | 0.350                    | -0.5087 | 0.350                      | -0.4662 |
| 0.400                       | -0.4710 | 0.400                    | -0.5062 | 0.400                      | -0.4469 |
| 0.450                       | -0.4195 | 0.450                    | -0.4497 | 0.450                      | -0.4233 |
| 0.500                       | -0.4070 | 0.500                    | -0.4388 | 0.500                      | -0.3874 |
| 0.550                       | -0.3510 | 0.550                    | -0.4288 | 0.550                      | -0.3867 |

Lower surface

|       |        |       |                 |       |         |
|-------|--------|-------|-----------------|-------|---------|
| 0.005 | 0.2784 | 0.005 | 0.3188          | 0.005 | 0.2546  |
| 0.010 | 0.0734 | 0.010 | 0.0574<br>m-432 | 0.010 | -0.0546 |



Fight 22 Test point 24

Sweep, deg = 34.5 Mach = 0.81 hp, ft = 35000. Angle of attack, deg = 2.5  
 Angle of sideslip, deg = 0.4 QBAR, lb/ft<sup>2</sup> = 227.2 R<sub>pu</sub> = 1950000.

| Upper surface               |                |                          |                |                            |                |
|-----------------------------|----------------|--------------------------|----------------|----------------------------|----------------|
| BL 200.8<br>Inboard station |                | BL 200<br>Middle station |                | BL 320<br>Outboard station |                |
| x/c                         | C <sub>p</sub> | x/c                      | C <sub>p</sub> | x/c                        | C <sub>p</sub> |
| 0.000                       | 0.6773         | 0.000                    | 0.6924         | 0.000                      | 0.6904         |
| 0.005                       | -0.2199        | 0.005                    | -0.2437        | 0.005                      | 0.0112         |
| 0.010                       | -0.4401        | 0.010                    | -0.4513        | 0.010                      | -0.2755        |
| 0.020                       | -0.6327        | 0.020                    | -0.6583        | 0.020                      | -0.5997        |
| 0.040                       | -0.7675        | 0.040                    | -0.8066        | 0.040                      | -0.7067        |
| 0.060                       | -0.8242        | 0.060                    | -0.7878        | 0.060                      | -0.7844        |
| 0.080                       | -0.7897        | 0.080                    | -0.7920        | 0.080                      | -0.7234        |
| 0.100                       | -0.7829        | 0.100                    | -0.7922        | 0.100                      | -0.8241        |
| 0.125                       | -0.7039        | 0.125                    | -0.7810        | 0.125                      | -0.7459        |
| 0.150                       | -0.7951        | 0.150                    | -0.8003        | 0.150                      | -0.7158        |
| 0.175                       | -0.7918        | 0.175                    | -0.8077        | 0.175                      | -0.7582        |
| 0.200                       | -0.8430        | 0.200                    | -0.8124        | 0.200                      | -0.7321        |
| 0.250                       | -0.8981        | 0.250                    | -0.8878        | 0.250                      | -0.8083        |
| 0.300                       | -0.7221        | 0.300                    | -0.9154        | 0.300                      | -0.8285        |
| 0.350                       | -0.7359        | 0.350                    | -0.9307        | 0.350                      | -0.8682        |
| 0.400                       | -0.7486        | 0.400                    | -0.9595        | 0.400                      | -0.8301        |
| 0.450                       | -0.6553        | 0.450                    | -0.4841        | 0.450                      | -0.3918        |
| 0.500                       | -0.4405        | 0.500                    | -0.4339        | 0.500                      | -0.3669        |
| 0.550                       | -0.3798        | 0.550                    | -0.4231        | 0.550                      | -0.3774        |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.4948 | 0.005 | 0.5499 | 0.005 | 0.5258 |
| 0.010         | 0.3246 | 0.010 | 0.3446 | 0.010 | 0.2982 |

Fight 22 Test point 25

Sweep, deg = 34.5 Mach = 0.81 hp, ft = 35000. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = 0.5 QBAR, lb/ft<sup>2</sup> = 226.5 Rnpu = 1946000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7296  | 0.000                    | 0.7645  | 0.000                      | 0.7590  |
| 0.005                       | 0.1889  | 0.005                    | 0.1935  | 0.005                      | 0.3974  |
| 0.010                       | -0.0188 | 0.010                    | 0.0049  | 0.010                      | 0.1693  |
| 0.020                       | -0.2146 | 0.020                    | -0.2048 | 0.020                      | -0.0978 |
| 0.040                       | -0.3710 | 0.040                    | -0.3523 | 0.040                      | -0.2511 |
| 0.060                       | -0.4135 | 0.060                    | -0.3920 | 0.060                      | -0.3302 |
| 0.080                       | -0.4515 | 0.080                    | -0.4289 | 0.080                      | -0.3568 |
| 0.100                       | -0.4722 | 0.100                    | -0.4403 | 0.100                      | -0.3792 |
| 0.125                       | -0.4424 | 0.125                    | -0.1035 | 0.125                      | -0.3931 |
| 0.150                       | -0.5217 | 0.150                    | -0.4845 | 0.150                      | -0.4186 |
| 0.175                       | -0.5272 | 0.175                    | -0.5505 | 0.175                      | -0.4659 |
| 0.200                       | -0.5602 | 0.200                    | -0.5510 | 0.200                      | -0.4517 |
| 0.250                       | -0.6068 | 0.250                    | -0.6403 | 0.250                      | -0.5192 |
| 0.300                       | -0.6111 | 0.300                    | -0.6335 | 0.300                      | -0.5224 |
| 0.350                       | -0.5945 | 0.350                    | -0.5458 | 0.350                      | -0.4965 |
| 0.400                       | -0.5512 | 0.400                    | -0.5345 | 0.400                      | -0.4817 |
| 0.450                       | -0.4456 | 0.450                    | -0.5020 | 0.450                      | -0.4483 |
| 0.500                       | -0.4219 | 0.500                    | -0.4624 | 0.500                      | -0.3972 |
| 0.550                       | -0.3687 | 0.550                    | -0.4411 | 0.550                      | -0.3866 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.1882  | 0.005 | 0.2344  | 0.005 | 0.1869  |
| 0.010 | -0.0258 | 0.010 | -0.0406 | 0.010 | -0.1376 |

Fight 22 Test point 26

Sweep, deg = 34.6 Mach = 0.81 hp, ft = 34700. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.5 QBAR, lb/ft<sup>2</sup> = 229.8 Rnpu = 1971000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7263  | 0.000                    | 0.7526  | 0.000                      | 0.7489  |
| 0.005                       | 0.0449  | 0.005                    | 0.0381  | 0.005                      | 0.2651  |
| 0.010                       | -0.1695 | 0.010                    | -0.1550 | 0.010                      | 0.0115  |
| 0.020                       | -0.3629 | 0.020                    | -0.3695 | 0.020                      | -0.2651 |
| 0.040                       | -0.5019 | 0.040                    | -0.5011 | 0.040                      | -0.3918 |
| 0.060                       | -0.5800 | 0.060                    | -0.5622 | 0.060                      | -0.4934 |
| 0.080                       | -0.5455 | 0.080                    | -0.5560 | 0.080                      | -0.5509 |
| 0.100                       | -0.5584 | 0.100                    | -0.5662 | 0.100                      | -0.4831 |
| 0.125                       | -0.5332 | 0.125                    | -0.5572 | 0.125                      | -0.5150 |
| 0.150                       | -0.6161 | 0.150                    | -0.5912 | 0.150                      | -0.5789 |
| 0.175                       | -0.6103 | 0.175                    | -0.6119 | 0.175                      | -0.5658 |
| 0.200                       | -0.6698 | 0.200                    | -0.6594 | 0.200                      | -0.5432 |
| 0.250                       | -0.7050 | 0.250                    | -0.7286 | 0.250                      | -0.5925 |
| 0.300                       | -0.6847 | 0.300                    | -0.7405 | 0.300                      | -0.5550 |
| 0.350                       | -0.6594 | 0.350                    | -0.7115 | 0.350                      | -0.6554 |
| 0.400                       | -0.6258 | 0.400                    | -0.5135 | 0.400                      | -0.4899 |
| 0.450                       | -0.4573 | 0.450                    | -0.5016 | 0.450                      | -0.4620 |
| 0.500                       | -0.4393 | 0.500                    | -0.4820 | 0.500                      | -0.4109 |
| 0.550                       | -0.3784 | 0.550                    | -0.4553 | 0.550                      | -0.3938 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3232 | 0.005 | 0.3784 | 0.005 | 0.3341 |
| 0.010 | 0.1215 | 0.010 | 0.1232 | 0.010 | 0.0476 |

Fight 22 Test point 27

Sweep, deg = 30.4 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 2.3  
 Angle of sideslip, deg = 0.5 QBAR, lb/ft<sup>2</sup> = 224.7 Rnpu = 1938000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7811  | 0.000                    | 0.8012  | 0.000                      | 0.8006  |
| 0.005                       | -0.0945 | 0.005                    | -0.0980 | 0.005                      | 0.1594  |
| 0.010                       | -0.3333 | 0.010                    | -0.3198 | 0.010                      | -0.1367 |
| 0.020                       | -0.5558 | 0.020                    | -0.5516 | 0.020                      | -0.4657 |
| 0.040                       | -0.7143 | 0.040                    | -0.6990 | 0.040                      | -0.6034 |
| 0.060                       | -0.7747 | 0.060                    | -0.7452 | 0.060                      | -0.7139 |
| 0.080                       | -0.7540 | 0.080                    | -0.7371 | 0.080                      | -0.6665 |
| 0.100                       | -0.7519 | 0.100                    | -0.7656 | 0.100                      | -0.7825 |
| 0.125                       | -0.6997 | 0.125                    | -0.7501 | 0.125                      | -0.7070 |
| 0.150                       | -0.7689 | 0.150                    | -0.7542 | 0.150                      | -0.6671 |
| 0.175                       | -0.7751 | 0.175                    | -0.7974 | 0.175                      | -0.7464 |
| 0.200                       | -0.8351 | 0.200                    | -0.7947 | 0.200                      | -0.7045 |
| 0.250                       | -0.9192 | 0.250                    | -0.8787 | 0.250                      | -0.7991 |
| 0.300                       | -0.9682 | 0.300                    | -0.9286 | 0.300                      | -0.8378 |
| 0.350                       | -0.9194 | 0.350                    | -0.9467 | 0.350                      | -0.8978 |
| 0.400                       | -0.7388 | 0.400                    | -1.0245 | 0.400                      | -0.9192 |
| 0.450                       | -0.7542 | 0.450                    | -1.0338 | 0.450                      | -0.9682 |
| 0.500                       | -0.4860 | 0.500                    | -0.5991 | 0.500                      | -0.4829 |
| 0.550                       | -0.3864 | 0.550                    | -0.4104 | 0.550                      | -0.3463 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4946 | 0.005 | 0.5463 | 0.005 | 0.5090 |
| 0.010 | 0.2981 | 0.010 | 0.2951 | 0.010 | 0.2357 |

Fight 22 Test point 28

Sweep, deg = 30.4 Mach = 0.80 hp, ft = 34500. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.6 QBAR, lb/ft<sup>2</sup> = 230.1 Rnpu = 1975000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8054  | 0.000                    | 0.8478  | 0.000                      | 0.8378  |
| 0.005                       | 0.1819  | 0.005                    | 0.1974  | 0.005                      | 0.4109  |
| 0.010                       | -0.0468 | 0.010                    | -0.0149 | 0.010                      | 0.1585  |
| 0.020                       | -0.2664 | 0.020                    | -0.2478 | 0.020                      | -0.1402 |
| 0.040                       | -0.4435 | 0.040                    | -0.4006 | 0.040                      | -0.3038 |
| 0.060                       | -0.5212 | 0.060                    | -0.4535 | 0.060                      | -0.4078 |
| 0.080                       | -0.5273 | 0.080                    | -0.4820 | 0.080                      | -0.4283 |
| 0.100                       | -0.5237 | 0.100                    | -0.5274 | 0.100                      | -0.4411 |
| 0.125                       | -0.5166 | 0.125                    | -0.5070 | 0.125                      | -0.4664 |
| 0.150                       | -0.6085 | 0.150                    | -0.5675 | 0.150                      | -0.5465 |
| 0.175                       | -0.6138 | 0.175                    | -0.5672 | 0.175                      | -0.5370 |
| 0.200                       | -0.6178 | 0.200                    | -0.6347 | 0.200                      | -0.5389 |
| 0.250                       | -0.7045 | 0.250                    | -0.7678 | 0.250                      | -0.6199 |
| 0.300                       | -0.7390 | 0.300                    | -0.7695 | 0.300                      | -0.6524 |
| 0.350                       | -0.7134 | 0.350                    | -0.7889 | 0.350                      | -0.6978 |
| 0.400                       | -0.6982 | 0.400                    | -0.8341 | 0.400                      | -0.6527 |
| 0.450                       | -0.6058 | 0.450                    | -0.4654 | 0.450                      | -0.4439 |
| 0.500                       | -0.4407 | 0.500                    | -0.4767 | 0.500                      | -0.4222 |
| 0.550                       | -0.3894 | 0.550                    | -0.4606 | 0.550                      | -0.4031 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.2794 | 0.005 | 0.3136 | 0.005 | 0.2649  |
| 0.010 | 0.0470 | 0.010 | 0.0252 | 0.010 | -0.0732 |

Fight 22 Test point 29

Sweep, deg = 30.4 Mach = 0.81 hp, ft = 34400. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.5 QBAR, lb/ft<sup>2</sup> = 233.9 Rnpu = 1997000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8012  | 0.000                    | 0.8291  | 0.000                      | 0.8265  |
| 0.005                       | 0.0478  | 0.005                    | 0.0556  | 0.005                      | 0.2945  |
| 0.010                       | -0.1846 | 0.010                    | -0.1603 | 0.010                      | 0.0217  |
| 0.020                       | -0.4060 | 0.020                    | -0.3894 | 0.020                      | -0.2933 |
| 0.040                       | -0.5960 | 0.040                    | -0.5544 | 0.040                      | -0.4391 |
| 0.060                       | -0.5993 | 0.060                    | -0.5620 | 0.060                      | -0.5104 |
| 0.080                       | -0.6805 | 0.080                    | -0.6602 | 0.080                      | -0.6176 |
| 0.100                       | -0.6423 | 0.100                    | -0.6510 | 0.100                      | -0.6212 |
| 0.125                       | -0.6067 | 0.125                    | -0.5994 | 0.125                      | -0.4964 |
| 0.150                       | -0.6779 | 0.150                    | -0.6415 | 0.150                      | -0.6082 |
| 0.175                       | -0.7034 | 0.175                    | -0.6709 | 0.175                      | -0.6491 |
| 0.200                       | -0.7625 | 0.200                    | -0.7152 | 0.200                      | -0.6560 |
| 0.250                       | -0.8403 | 0.250                    | -0.8027 | 0.250                      | -0.7220 |
| 0.300                       | -0.8583 | 0.300                    | -0.8644 | 0.300                      | -0.7578 |
| 0.350                       | -0.7175 | 0.350                    | -0.9003 | 0.350                      | -0.8116 |
| 0.400                       | -0.7474 | 0.400                    | -0.9500 | 0.400                      | -0.8517 |
| 0.450                       | -0.7462 | 0.450                    | -0.9358 | 0.450                      | -0.8957 |
| 0.500                       | -0.4907 | 0.500                    | -0.4972 | 0.500                      | -0.3886 |
| 0.550                       | -0.3835 | 0.550                    | -0.4100 | 0.550                      | -0.3561 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3926 | 0.005 | 0.4365 | 0.005 | 0.3923 |
| 0.010 | 0.1828 | 0.010 | 0.1733 | 0.010 | 0.0879 |

Fight 22 Test point 30

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = 0.4 QBAR, lb/ft<sup>2</sup> = 223.9 Rnpu = 1930000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8944  | 0.000                    | 0.9241  | 0.000                      | 0.9189  |
| 0.005                       | 0.0427  | 0.005                    | 0.0710  | 0.005                      | 0.3276  |
| 0.010                       | -0.2150 | 0.010                    | -0.1706 | 0.010                      | 0.0331  |
| 0.020                       | -0.4574 | 0.020                    | -0.4228 | 0.020                      | -0.3082 |
| 0.040                       | -0.6761 | 0.040                    | -0.5330 | 0.040                      | -0.4756 |
| 0.060                       | -0.7274 | 0.060                    | -0.6461 | 0.060                      | -0.5862 |
| 0.080                       | -0.7111 | 0.080                    | -0.6857 | 0.080                      | -0.6190 |
| 0.100                       | -0.7532 | 0.100                    | -0.7143 | 0.100                      | -0.7258 |
| 0.125                       | -0.7042 | 0.125                    | -0.7076 | 0.125                      | -0.6304 |
| 0.150                       | -0.7729 | 0.150                    | -0.7378 | 0.150                      | -0.5956 |
| 0.175                       | -0.7853 | 0.175                    | -0.7640 | 0.175                      | -0.7154 |
| 0.200                       | -0.8537 | 0.200                    | -0.7830 | 0.200                      | -0.6870 |
| 0.250                       | -0.9339 | 0.250                    | -0.8763 | 0.250                      | -0.7800 |
| 0.300                       | -0.9958 | 0.300                    | -0.9303 | 0.300                      | -0.8259 |
| 0.350                       | -0.9792 | 0.350                    | -0.9752 | 0.350                      | -0.9027 |
| 0.400                       | -0.9786 | 0.400                    | -1.0537 | 0.400                      | -0.9390 |
| 0.450                       | -0.9847 | 0.450                    | -1.0585 | 0.450                      | -1.0101 |
| 0.500                       | -0.8945 | 0.500                    | -0.8456 | 0.500                      | -1.0138 |
| 0.550                       | -0.4170 | 0.550                    | -0.4468 | 0.550                      | -0.4105 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5038 | 0.005 | 0.5399 | 0.005 | 0.4866 |
| 0.010 | 0.2781 | 0.010 | 0.2505 | 0.010 | 0.1602 |

Fight 22 Test point 31

Sweep, deg = 25.3 Mach = 0.81 hp, ft = 34600. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.7 QBAR, lb/ft<sup>2</sup> = 229.4 Rnpu = 1965000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9060  | 0.000                    | 0.9443  | 0.000                      | 0.9346  |
| 0.005                       | 0.2500  | 0.005                    | 0.2813  | 0.005                      | 0.5048  |
| 0.010                       | 0.0006  | 0.010                    | 0.0520  | 0.010                      | 0.2390  |
| 0.020                       | -0.2386 | 0.020                    | -0.2035 | 0.020                      | -0.0857 |
| 0.040                       | -0.4365 | 0.040                    | -0.3837 | 0.040                      | -0.2734 |
| 0.060                       | -0.5108 | 0.060                    | -0.4520 | 0.060                      | -0.3921 |
| 0.080                       | -0.5327 | 0.080                    | -0.4877 | 0.080                      | -0.4277 |
| 0.100                       | -0.5854 | 0.100                    | -0.5184 | 0.100                      | -0.4473 |
| 0.125                       | -0.5627 | 0.125                    | -0.5194 | 0.125                      | -0.4643 |
| 0.150                       | -0.6272 | 0.150                    | -0.5657 | 0.150                      | -0.5656 |
| 0.175                       | -0.6588 | 0.175                    | -0.6290 | 0.175                      | -0.5604 |
| 0.200                       | -0.7313 | 0.200                    | -0.6867 | 0.200                      | -0.5620 |
| 0.250                       | -0.8172 | 0.250                    | -0.7607 | 0.250                      | -0.6614 |
| 0.300                       | -0.8637 | 0.300                    | -0.8440 | 0.300                      | -0.7067 |
| 0.350                       | -0.8599 | 0.350                    | -0.8691 | 0.350                      | -0.7881 |
| 0.400                       | -0.8451 | 0.400                    | -0.9370 | 0.400                      | -0.8303 |
| 0.450                       | -0.7263 | 0.450                    | -0.9489 | 0.450                      | -0.8801 |
| 0.500                       | -0.7797 | 0.500                    | -0.9929 | 0.500                      | -0.9069 |
| 0.550                       | -0.3912 | 0.550                    | -0.5664 | 0.550                      | -0.4879 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3243 | 0.005 | 0.3459 | 0.005 | 0.2937  |
| 0.010 | 0.0742 | 0.010 | 0.0301 | 0.010 | -0.0894 |



Fight 22 Test point 32

Sweep, deg = 25.3 Mach = 0.81 hp, ft = 34400. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.5 QBAR, lb/ft<sup>2</sup> = 232.6 Rnpu = 1989000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9020  | 0.000                    | 0.9342  | 0.000                      | 0.9278  |
| 0.005                       | 0.1288  | 0.005                    | 0.1551  | 0.005                      | 0.4039  |
| 0.010                       | -0.1266 | 0.010                    | -0.0798 | 0.010                      | 0.1173  |
| 0.020                       | -0.3653 | 0.020                    | -0.3329 | 0.020                      | -0.2180 |
| 0.040                       | -0.6034 | 0.040                    | -0.5130 | 0.040                      | -0.3880 |
| 0.060                       | -0.6233 | 0.060                    | -0.5458 | 0.060                      | -0.4896 |
| 0.080                       | -0.6827 | 0.080                    | -0.6451 | 0.080                      | -0.5785 |
| 0.100                       | -0.6799 | 0.100                    | -0.6366 | 0.100                      | -0.6001 |
| 0.125                       | -0.6382 | 0.125                    | -0.6343 | 0.125                      | -0.4813 |
| 0.150                       | -0.7154 | 0.150                    | -0.6588 | 0.150                      | -0.5963 |
| 0.175                       | -0.7353 | 0.175                    | -0.6951 | 0.175                      | -0.6751 |
| 0.200                       | -0.8082 | 0.200                    | -0.7227 | 0.200                      | -0.6511 |
| 0.250                       | -0.8889 | 0.250                    | -0.8343 | 0.250                      | -0.7340 |
| 0.300                       | -0.9442 | 0.300                    | -0.8957 | 0.300                      | -0.7809 |
| 0.350                       | -0.9347 | 0.350                    | -0.9329 | 0.350                      | -0.8638 |
| 0.400                       | -0.9381 | 0.400                    | -1.0133 | 0.400                      | -0.8910 |
| 0.450                       | -0.9420 | 0.450                    | -1.0274 | 0.450                      | -0.9630 |
| 0.500                       | -0.8421 | 0.500                    | -1.0786 | 0.500                      | -0.9831 |
| 0.550                       | -0.4092 | 0.550                    | -0.4358 | 0.550                      | -0.4416 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4416 | 0.005 | 0.4599 | 0.005 | 0.4111 |
| 0.010 | 0.2028 | 0.010 | 0.1677 | 0.010 | 0.0649 |

Fight 22 Test point 33

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 224.1 R<sub>npu</sub> = 1929000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9871  | 0.000                    | 1.0237  | 0.000                      | 1.0109  |
| 0.005                       | 0.2049  | 0.005                    | 0.2549  | 0.005                      | 0.5059  |
| 0.010                       | -0.0633 | 0.010                    | 0.0036  | 0.010                      | 0.2140  |
| 0.020                       | -0.3130 | 0.020                    | -0.2654 | 0.020                      | -0.1358 |
| 0.040                       | -0.5649 | 0.040                    | -0.4587 | 0.040                      | -0.3292 |
| 0.060                       | -0.6130 | 0.060                    | -0.5148 | 0.060                      | -0.4460 |
| 0.080                       | -0.6564 | 0.080                    | -0.6038 | 0.080                      | -0.5188 |
| 0.100                       | -0.6784 | 0.100                    | -0.6006 | 0.100                      | -0.5122 |
| 0.125                       | -0.6474 | 0.125                    | -0.5999 | 0.125                      | -0.4946 |
| 0.150                       | -0.7218 | 0.150                    | -0.6431 | 0.150                      | -0.5717 |
| 0.175                       | -0.7362 | 0.175                    | -0.6797 | 0.175                      | -0.6487 |
| 0.200                       | -0.8147 | 0.200                    | -0.7212 | 0.200                      | -0.6371 |
| 0.250                       | -0.9072 | 0.250                    | -0.8308 | 0.250                      | -0.7298 |
| 0.300                       | -0.9813 | 0.300                    | -0.9003 | 0.300                      | -0.7812 |
| 0.350                       | -0.9786 | 0.350                    | -0.9403 | 0.350                      | -0.8495 |
| 0.400                       | -0.9767 | 0.400                    | -1.0251 | 0.400                      | -0.8976 |
| 0.450                       | -0.9844 | 0.450                    | -1.0475 | 0.450                      | -0.9678 |
| 0.500                       | -1.0741 | 0.500                    | -1.0498 | 0.500                      | -0.9885 |
| 0.550                       | -0.4454 | 0.550                    | -0.4593 | 0.550                      | -0.7890 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4683 | 0.005 | 0.4747 | 0.005 | 0.4102 |
| 0.010 | 0.2139 | 0.010 | 0.1543 | 0.010 | 0.0334 |

Fight 22 Test point 34

Sweep, deg = 20.0 Mach = 0.81 hp, ft = 35300. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.5 QBAR, lb/ft<sup>2</sup> = 222.5 Rnpu = 1911000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9916  | 0.000                    | 1.0288  | 0.000                      | 1.0183  |
| 0.005                       | 0.3300  | 0.005                    | 0.3760  | 0.005                      | 0.6030  |
| 0.010                       | 0.0634  | 0.010                    | 0.1368  | 0.010                      | 0.3293  |
| 0.020                       | -0.1830 | 0.020                    | -0.1374 | 0.020                      | -0.0118 |
| 0.040                       | -0.4055 | 0.040                    | -0.3350 | 0.040                      | -0.2102 |
| 0.060                       | -0.4869 | 0.060                    | -0.4054 | 0.060                      | -0.3353 |
| 0.080                       | -0.5505 | 0.080                    | -0.4577 | 0.080                      | -0.3851 |
| 0.100                       | -0.5776 | 0.100                    | -0.4882 | 0.100                      | -0.4134 |
| 0.125                       | -0.5573 | 0.125                    | -0.5090 | 0.125                      | -0.4319 |
| 0.150                       | -0.6347 | 0.150                    | -0.5458 | 0.150                      | -0.5241 |
| 0.175                       | -0.6722 | 0.175                    | -0.5105 | 0.175                      | -0.5198 |
| 0.200                       | -0.7369 | 0.200                    | -0.6581 | 0.200                      | -0.5514 |
| 0.250                       | -0.8371 | 0.250                    | -0.7635 | 0.250                      | -0.6555 |
| 0.300                       | -0.9024 | 0.300                    | -0.8320 | 0.300                      | -0.7078 |
| 0.350                       | -0.8973 | 0.350                    | -0.8751 | 0.350                      | -0.7976 |
| 0.400                       | -0.9108 | 0.400                    | -0.9663 | 0.400                      | -0.8209 |
| 0.450                       | -0.9279 | 0.450                    | -0.9778 | 0.450                      | -0.9055 |
| 0.500                       | -1.0238 | 0.500                    | -1.0315 | 0.500                      | -0.9227 |
| 0.550                       | -0.4699 | 0.550                    | -0.6034 | 0.550                      | -0.8677 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.3577 | 0.005 | 0.3676 | 0.005 | 0.2991  |
| 0.010         | 0.0870 | 0.010 | 0.0258 | 0.010 | -0.1090 |

Fight 22 Test point 35

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 34900. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 225.0 R<sub>pu</sub> = 1936000.

Upper surface

| BL 200.8<br>Inboard station |                | BL 260<br>Middle station |                | BL 320<br>Outboard station |                |
|-----------------------------|----------------|--------------------------|----------------|----------------------------|----------------|
| x/c                         | C <sub>p</sub> | x/c                      | C <sub>p</sub> | x/c                        | C <sub>p</sub> |
| 0.000                       | 0.9836         | 0.000                    | 1.0215         | 0.000                      | 1.0135         |
| 0.005                       | 0.1950         | 0.005                    | 0.2450         | 0.005                      | 0.4974         |
| 0.010                       | -0.0699        | 0.010                    | -0.0120        | 0.010                      | 0.2031         |
| 0.020                       | -0.3306        | 0.020                    | -0.2740        | 0.020                      | -0.1453        |
| 0.040                       | -0.5771        | 0.040                    | -0.4684        | 0.040                      | -0.3363        |
| 0.060                       | -0.6269        | 0.060                    | -0.5243        | 0.060                      | -0.4492        |
| 0.080                       | -0.6560        | 0.080                    | -0.6161        | 0.080                      | -0.5308        |
| 0.100                       | -0.6941        | 0.100                    | -0.6092        | 0.100                      | -0.5228        |
| 0.125                       | -0.6530        | 0.125                    | -0.6089        | 0.125                      | -0.4958        |
| 0.150                       | -0.7278        | 0.150                    | -0.6494        | 0.150                      | -0.5858        |
| 0.175                       | -0.7430        | 0.175                    | -0.6888        | 0.175                      | -0.6588        |
| 0.200                       | -0.8229        | 0.200                    | -0.7200        | 0.200                      | -0.6477        |
| 0.250                       | -0.9193        | 0.250                    | -0.8338        | 0.250                      | -0.7310        |
| 0.300                       | -0.9884        | 0.300                    | -0.9098        | 0.300                      | -0.7808        |
| 0.350                       | -0.9824        | 0.350                    | -0.9517        | 0.350                      | -0.8501        |
| 0.400                       | -0.9761        | 0.400                    | -1.0312        | 0.400                      | -0.9002        |
| 0.450                       | -0.9861        | 0.450                    | -1.0514        | 0.450                      | -0.9693        |
| 0.500                       | -1.0790        | 0.500                    | -1.0529        | 0.500                      | -0.9957        |
| 0.550                       | -0.4518        | 0.550                    | -0.4455        | 0.550                      | -0.8141        |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4761 | 0.005 | 0.4908 | 0.005 | 0.4245 |
| 0.010 | 0.2191 | 0.010 | 0.1664 | 0.010 | 0.0410 |

Fight 22 Test point 36

Sweep, deg = 29.7 Mach = 0.83 hp, ft = 34900. Angle of attack, deg = 2.2  
 Angle of sideslip, deg = 0.4 QBAR, lb/ft<sup>2</sup> = 238.8 Rnpu = 2003000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8079  | 0.000                    | 0.8376  | 0.000                      | 0.8295  |
| 0.005                       | -0.0140 | 0.005                    | -0.0032 | 0.005                      | 0.2368  |
| 0.010                       | -0.2571 | 0.010                    | -0.2246 | 0.010                      | -0.0448 |
| 0.020                       | -0.4725 | 0.020                    | -0.4530 | 0.020                      | -0.3664 |
| 0.040                       | -0.6368 | 0.040                    | -0.6154 | 0.040                      | -0.5119 |
| 0.060                       | -0.7065 | 0.060                    | -0.6717 | 0.060                      | -0.6316 |
| 0.080                       | -0.7032 | 0.080                    | -0.6768 | 0.080                      | -0.5920 |
| 0.100                       | -0.7262 | 0.100                    | -0.7074 | 0.100                      | -0.7186 |
| 0.125                       | -0.6691 | 0.125                    | -0.7030 | 0.125                      | -0.6731 |
| 0.150                       | -0.7477 | 0.150                    | -0.7306 | 0.150                      | -0.6314 |
| 0.175                       | -0.7566 | 0.175                    | -0.7584 | 0.175                      | -0.7212 |
| 0.200                       | -0.8075 | 0.200                    | -0.7753 | 0.200                      | -0.6881 |
| 0.250                       | -0.8900 | 0.250                    | -0.8484 | 0.250                      | -0.7587 |
| 0.300                       | -0.9300 | 0.300                    | -0.9014 | 0.300                      | -0.8045 |
| 0.350                       | -0.9407 | 0.350                    | -0.9325 | 0.350                      | -0.8843 |
| 0.400                       | -0.9452 | 0.400                    | -1.0042 | 0.400                      | -0.9135 |
| 0.450                       | -0.9452 | 0.450                    | -1.0246 | 0.450                      | -0.9749 |
| 0.500                       | -0.7997 | 0.500                    | -1.0597 | 0.500                      | -0.9261 |
| 0.550                       | -0.4840 | 0.550                    | -0.4814 | 0.550                      | -0.3911 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4778 | 0.005 | 0.5143 | 0.005 | 0.4751 |
| 0.010 | 0.2775 | 0.010 | 0.2599 | 0.010 | 0.1876 |

Fight 22 Test point 37

Sweep, deg = 34.9 Mach = 0.83  $\rho$ , ft = 34900. Angle of attack, deg = 2.5  
 Angle of sideslip, deg = 0.4  $Q_{BAR}$ , lb/ft<sup>2</sup> = 239.4  $R_{\rho u}$  = 2008000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.6875  | 0.000                    | 0.6977  | 0.000                      | 0.6985  |
| 0.005                       | -0.1640 | 0.005                    | -0.1845 | 0.005                      | 0.0534  |
| 0.010                       | -0.3807 | 0.010                    | -0.3863 | 0.010                      | -0.2254 |
| 0.020                       | -0.5734 | 0.020                    | -0.5950 | 0.020                      | -0.5411 |
| 0.040                       | -0.7149 | 0.040                    | -0.7464 | 0.040                      | -0.6639 |
| 0.060                       | -0.7771 | 0.060                    | -0.7426 | 0.060                      | -0.7432 |
| 0.080                       | -0.7477 | 0.080                    | -0.7493 | 0.080                      | -0.6958 |
| 0.100                       | -0.7447 | 0.100                    | -0.7715 | 0.100                      | -0.7883 |
| 0.125                       | -0.6766 | 0.125                    | -0.7587 | 0.125                      | -0.7411 |
| 0.150                       | -0.7580 | 0.150                    | -0.7700 | 0.150                      | -0.7028 |
| 0.175                       | -0.7690 | 0.175                    | -0.8008 | 0.175                      | -0.7731 |
| 0.200                       | -0.8235 | 0.200                    | -0.8110 | 0.200                      | -0.7430 |
| 0.250                       | -0.8923 | 0.250                    | -0.8702 | 0.250                      | -0.7930 |
| 0.300                       | -0.9341 | 0.300                    | -0.9119 | 0.300                      | -0.8172 |
| 0.350                       | -0.7217 | 0.350                    | -0.9383 | 0.350                      | -0.8890 |
| 0.400                       | -0.7148 | 0.400                    | -0.9903 | 0.400                      | -0.9030 |
| 0.450                       | -0.7443 | 0.450                    | -0.9985 | 0.450                      | -0.9543 |
| 0.500                       | -0.7823 | 0.500                    | -0.6088 | 0.500                      | -0.5129 |
| 0.550                       | -0.3617 | 0.550                    | -0.3859 | 0.550                      | -0.3308 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4800 | 0.005 | 0.5240 | 0.005 | 0.5059 |
| 0.010 | 0.3063 | 0.010 | 0.3157 | 0.010 | 0.2767 |

Fight 22 Test point 38

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = 0.4 QBAR, lb/ft<sup>2</sup> = 354.2 Rnpu = 2814000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9892  | 0.000                    | 1.0190  | 0.000                      | 1.0017  |
| 0.005                       | 0.3631  | 0.005                    | 0.4167  | 0.005                      | 0.6303  |
| 0.010                       | 0.1016  | 0.010                    | 0.1698  | 0.010                      | 0.3705  |
| 0.020                       | -0.1516 | 0.020                    | -0.0951 | 0.020                      | 0.0273  |
| 0.040                       | -0.3727 | 0.040                    | -0.2973 | 0.040                      | -0.1764 |
| 0.060                       | -0.4605 | 0.060                    | -0.3763 | 0.060                      | -0.3023 |
| 0.080                       | -0.5078 | 0.080                    | -0.4336 | 0.080                      | -0.3517 |
| 0.100                       | -0.5602 | 0.100                    | -0.4720 | 0.100                      | -0.3859 |
| 0.125                       | -0.5407 | 0.125                    | -0.4785 | 0.125                      | -0.4160 |
| 0.150                       | -0.6179 | 0.150                    | -0.5383 | 0.150                      | -0.4927 |
| 0.175                       | -0.6505 | 0.175                    | -0.5907 | 0.175                      | -0.5049 |
| 0.200                       | -0.7167 | 0.200                    | -0.6373 | 0.200                      | -0.5345 |
| 0.250                       | -0.8142 | 0.250                    | -0.7421 | 0.250                      | -0.6175 |
| 0.300                       | -0.8666 | 0.300                    | -0.8208 | 0.300                      | -0.6887 |
| 0.350                       | -0.8864 | 0.350                    | -0.8710 | 0.350                      | -0.7821 |
| 0.400                       | -0.9052 | 0.400                    | -0.9395 | 0.400                      | -0.8097 |
| 0.450                       | -0.9271 | 0.450                    | -0.9619 | 0.450                      | -0.8839 |
| 0.500                       | -1.0121 | 0.500                    | -1.0164 | 0.500                      | -0.9073 |
| 0.550                       | -0.4597 | 0.550                    | -0.6977 | 0.550                      | -0.8716 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3147 | 0.005 | 0.3049  | 0.005 | 0.2369  |
| 0.010 | 0.0317 | 0.010 | -0.0456 | 0.010 | -0.1826 |

Fight 22 Test point 39

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25100. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 351.3 Rnpu = 2797000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9916  | 0.000                    | 1.0250  | 0.000                      | 1.0113  |
| 0.005                       | 0.2680  | 0.005                    | 0.3218  | 0.005                      | 0.5564  |
| 0.010                       | 0.0022  | 0.010                    | 0.0681  | 0.010                      | 0.2777  |
| 0.020                       | -0.2594 | 0.020                    | -0.2006 | 0.020                      | -0.0724 |
| 0.040                       | -0.4759 | 0.040                    | -0.3977 | 0.040                      | -0.2669 |
| 0.060                       | -0.5356 | 0.060                    | -0.4747 | 0.060                      | -0.3925 |
| 0.080                       | -0.6343 | 0.080                    | -0.5193 | 0.080                      | -0.4500 |
| 0.100                       | -0.6159 | 0.100                    | -0.5471 | 0.100                      | -0.4602 |
| 0.125                       | -0.6026 | 0.125                    | -0.5914 | 0.125                      | -0.4683 |
| 0.150                       | -0.6849 | 0.150                    | -0.5870 | 0.150                      | -0.5523 |
| 0.175                       | -0.7168 | 0.175                    | -0.6604 | 0.175                      | -0.6261 |
| 0.200                       | -0.7767 | 0.200                    | -0.6963 | 0.200                      | -0.5696 |
| 0.250                       | -0.8692 | 0.250                    | -0.7940 | 0.250                      | -0.6791 |
| 0.300                       | -0.9426 | 0.300                    | -0.8566 | 0.300                      | -0.7431 |
| 0.350                       | -0.9514 | 0.350                    | -0.9179 | 0.350                      | -0.8275 |
| 0.400                       | -0.9596 | 0.400                    | -0.9927 | 0.400                      | -0.8715 |
| 0.450                       | -0.9566 | 0.450                    | -1.0218 | 0.450                      | -0.9378 |
| 0.500                       | -1.0608 | 0.500                    | -1.0714 | 0.500                      | -0.9571 |
| 0.550                       | -0.5063 | 0.550                    | -0.5520 | 0.550                      | -0.7723 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4134 | 0.005 | 0.4061 | 0.005 | 0.3273  |
| 0.010 | 0.1435 | 0.010 | 0.0755 | 0.010 | -0.0557 |



Fight 22 Test point 40

Sweep, deg = 25.4 Mach = 0.80 hp, ft = 25100. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = 0.4 QBAR, lb/ft<sup>2</sup> = 354.1 Rnpu = 2813000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9005  | 0.000                    | 0.9309  | 0.000                      | 0.9183  |
| 0.005                       | 0.2908  | 0.005                    | 0.3289  | 0.005                      | 0.5412  |
| 0.010                       | 0.0426  | 0.010                    | 0.0965  | 0.010                      | 0.2868  |
| 0.020                       | -0.1962 | 0.020                    | -0.1572 | 0.020                      | -0.0366 |
| 0.040                       | -0.3952 | 0.040                    | -0.3316 | 0.040                      | -0.2228 |
| 0.060                       | -0.4794 | 0.060                    | -0.4069 | 0.060                      | -0.3281 |
| 0.080                       | -0.5113 | 0.080                    | -0.4519 | 0.080                      | -0.3740 |
| 0.100                       | -0.5305 | 0.100                    | -0.4909 | 0.100                      | -0.3994 |
| 0.125                       | -0.5406 | 0.125                    | -0.4898 | 0.125                      | -0.4345 |
| 0.150                       | -0.6168 | 0.150                    | -0.5557 | 0.150                      | -0.5279 |
| 0.175                       | -0.6367 | 0.175                    | -0.5913 | 0.175                      | -0.5159 |
| 0.200                       | -0.6978 | 0.200                    | -0.5792 | 0.200                      | -0.5386 |
| 0.250                       | -0.7783 | 0.250                    | -0.7537 | 0.250                      | -0.6345 |
| 0.300                       | -0.8401 | 0.300                    | -0.8108 | 0.300                      | -0.6831 |
| 0.350                       | -0.8294 | 0.350                    | -0.8487 | 0.350                      | -0.7598 |
| 0.400                       | -0.7057 | 0.400                    | -0.9111 | 0.400                      | -0.8180 |
| 0.450                       | -0.7410 | 0.450                    | -0.9255 | 0.450                      | -0.8675 |
| 0.500                       | -0.7831 | 0.500                    | -0.9607 | 0.500                      | -0.8740 |
| 0.550                       | -0.3937 | 0.550                    | -0.5094 | 0.550                      | -0.4275 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2829 | 0.005 | 0.2859  | 0.005 | 0.2201  |
| 0.010 | 0.0211 | 0.010 | -0.0380 | 0.010 | -0.1681 |

Fight 22 Test point 41

Sweep, deg = 25.4 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 350.5 R<sub>pu</sub> = 2799000.

Upper surface

| BL 200.8<br>Inboard station |                | BL 260<br>Middle station |                | BL 320<br>Outboard station |                |
|-----------------------------|----------------|--------------------------|----------------|----------------------------|----------------|
| x/c                         | C <sub>p</sub> | x/c                      | C <sub>p</sub> | x/c                        | C <sub>p</sub> |
| 0.000                       | 0.9010         | 0.000                    | 0.9329         | 0.000                      | 0.9225         |
| 0.005                       | 0.1851         | 0.005                    | 0.2228         | 0.005                      | 0.4566         |
| 0.010                       | -0.0692        | 0.010                    | -0.0184        | 0.010                      | 0.1822         |
| 0.020                       | -0.3124        | 0.020                    | -0.2706        | 0.020                      | -0.1511        |
| 0.040                       | -0.5151        | 0.040                    | -0.4469        | 0.040                      | -0.3342        |
| 0.060                       | -0.5530        | 0.060                    | -0.5191        | 0.060                      | -0.4451        |
| 0.080                       | -0.6658        | 0.080                    | -0.5334        | 0.080                      | -0.5103        |
| 0.100                       | -0.6248        | 0.100                    | -0.5422        | 0.100                      | -0.4744        |
| 0.125                       | -0.5947        | 0.125                    | -0.6061        | 0.125                      | -0.4886        |
| 0.150                       | -0.6930        | 0.150                    | -0.5946        | 0.150                      | -0.5844        |
| 0.175                       | -0.7055        | 0.175                    | -0.6642        | 0.175                      | -0.6208        |
| 0.200                       | -0.7663        | 0.200                    | -0.6973        | 0.200                      | -0.5878        |
| 0.250                       | -0.8440        | 0.250                    | -0.7784        | 0.250                      | -0.6871        |
| 0.300                       | -0.8998        | 0.300                    | -0.8738        | 0.300                      | -0.7401        |
| 0.350                       | -0.9061        | 0.350                    | -0.9201        | 0.350                      | -0.8189        |
| 0.400                       | -0.9007        | 0.400                    | -0.9731        | 0.400                      | -0.8571        |
| 0.450                       | -0.7344        | 0.450                    | -0.9893        | 0.450                      | -0.9127        |
| 0.500                       | -0.7717        | 0.500                    | -1.0265        | 0.500                      | -0.9321        |
| 0.550                       | -0.3995        | 0.550                    | -0.5502        | 0.550                      | -0.4859        |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3815 | 0.005 | 0.3891 | 0.005 | 0.3300  |
| 0.010 | 0.1340 | 0.010 | 0.0843 | 0.010 | -0.0335 |

Fight 22 Test point 42

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 25100. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 350.6 Rnpu = 2797000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8840  | 0.000                    | 0.9126  | 0.000                      | 0.9080  |
| 0.005                       | 0.0316  | 0.005                    | 0.0670  | 0.005                      | 0.3170  |
| 0.010                       | -0.2285 | 0.010                    | -0.1443 | 0.010                      | 0.0259  |
| 0.020                       | -0.4716 | 0.020                    | -0.4288 | 0.020                      | -0.3254 |
| 0.040                       | -0.6745 | 0.040                    | -0.5920 | 0.040                      | -0.4873 |
| 0.060                       | -0.7400 | 0.060                    | -0.6534 | 0.060                      | -0.5644 |
| 0.080                       | -0.7119 | 0.080                    | -0.6973 | 0.080                      | -0.6337 |
| 0.100                       | -0.7573 | 0.100                    | -0.7136 | 0.100                      | -0.7424 |
| 0.125                       | -0.7074 | 0.125                    | -0.6943 | 0.125                      | -0.6387 |
| 0.150                       | -0.7936 | 0.150                    | -0.7466 | 0.150                      | -0.6019 |
| 0.175                       | -0.7881 | 0.175                    | -0.7795 | 0.175                      | -0.7132 |
| 0.200                       | -0.8567 | 0.200                    | -0.7944 | 0.200                      | -0.7039 |
| 0.250                       | -0.9327 | 0.250                    | -0.8702 | 0.250                      | -0.7873 |
| 0.300                       | -0.9986 | 0.300                    | -0.9272 | 0.300                      | -0.8294 |
| 0.350                       | -0.9968 | 0.350                    | -0.9767 | 0.350                      | -0.8985 |
| 0.400                       | -0.9812 | 0.400                    | -1.0444 | 0.400                      | -0.9467 |
| 0.450                       | -1.0007 | 0.450                    | -1.0630 | 0.450                      | -1.0055 |
| 0.500                       | -0.9825 | 0.500                    | -1.1190 | 0.500                      | -1.0242 |
| 0.550                       | -0.4212 | 0.550                    | -0.4997 | 0.550                      | -0.4829 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5095 | 0.005 | 0.5170 | 0.005 | 0.4682 |
| 0.010 | 0.2815 | 0.010 | 0.2428 | 0.010 | 0.1467 |

Flight 22 Test point 43

Sweep, deg = 30.1 Mach = 0.80 hp, ft = 25100. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 351.2 R<sub>npu</sub> = 2798000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8130  | 0.000                    | 0.8428  | 0.000                      | 0.8390  |
| 0.005                       | 0.1781  | 0.005                    | 0.2034  | 0.005                      | 0.4167  |
| 0.010                       | -0.0578 | 0.010                    | -0.0130 | 0.010                      | 0.1685  |
| 0.020                       | -0.2787 | 0.020                    | -0.2570 | 0.020                      | -0.1331 |
| 0.040                       | -0.4525 | 0.040                    | -0.4020 | 0.040                      | -0.3003 |
| 0.060                       | -0.5279 | 0.060                    | -0.4609 | 0.060                      | -0.4141 |
| 0.080                       | -0.5532 | 0.080                    | -0.4957 | 0.080                      | -0.4310 |
| 0.100                       | -0.5623 | 0.100                    | -0.5392 | 0.100                      | -0.4479 |
| 0.125                       | -0.5424 | 0.125                    | -0.5230 | 0.125                      | -0.4826 |
| 0.150                       | -0.6329 | 0.150                    | -0.5718 | 0.150                      | -0.5464 |
| 0.175                       | -0.6170 | 0.175                    | -0.5929 | 0.175                      | -0.5450 |
| 0.200                       | -0.6063 | 0.200                    | -0.6439 | 0.200                      | -0.5584 |
| 0.250                       | -0.7030 | 0.250                    | -0.7675 | 0.250                      | -0.6370 |
| 0.300                       | -0.7467 | 0.300                    | -0.7832 | 0.300                      | -0.6701 |
| 0.350                       | -0.7304 | 0.350                    | -0.8067 | 0.350                      | -0.7109 |
| 0.400                       | -0.7152 | 0.400                    | -0.8431 | 0.400                      | -0.7011 |
| 0.450                       | -0.6499 | 0.450                    | -0.4896 | 0.450                      | -0.4512 |
| 0.500                       | -0.4463 | 0.500                    | -0.4766 | 0.500                      | -0.4385 |
| 0.550                       | -0.4027 | 0.550                    | -0.4791 | 0.550                      | -0.4258 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.2989 | 0.005 | 0.3144 | 0.005 | 0.2560  |
| 0.010 | 0.0683 | 0.010 | 0.0270 | 0.010 | -0.0820 |

Fight 22 Test point 44

Sweep, deg = 30.1 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 352.8 Rnpu = 2804000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8084  | 0.000                    | 0.8345  | 0.000                      | 0.8311  |
| 0.005                       | 0.0802  | 0.005                    | 0.1055  | 0.005                      | 0.3353  |
| 0.010                       | -0.1564 | 0.010                    | -0.1258 | 0.010                      | 0.0718  |
| 0.020                       | -0.3793 | 0.020                    | -0.3536 | 0.020                      | -0.2458 |
| 0.040                       | -0.5450 | 0.040                    | -0.5110 | 0.040                      | -0.3850 |
| 0.060                       | -0.5637 | 0.060                    | -0.5433 | 0.060                      | -0.4822 |
| 0.080                       | -0.6602 | 0.080                    | -0.5378 | 0.080                      | -0.5956 |
| 0.100                       | -0.6536 | 0.100                    | -0.5669 | 0.100                      | -0.4823 |
| 0.125                       | -0.6039 | 0.125                    | -0.6084 | 0.125                      | -0.5149 |
| 0.150                       | -0.6906 | 0.150                    | -0.6256 | 0.150                      | -0.6175 |
| 0.175                       | -0.6913 | 0.175                    | -0.6814 | 0.175                      | -0.6410 |
| 0.200                       | -0.7474 | 0.200                    | -0.6869 | 0.200                      | -0.6064 |
| 0.250                       | -0.7992 | 0.250                    | -0.7963 | 0.250                      | -0.6899 |
| 0.300                       | -0.6923 | 0.300                    | -0.8622 | 0.300                      | -0.7217 |
| 0.350                       | -0.7454 | 0.350                    | -0.8630 | 0.350                      | -0.7955 |
| 0.400                       | -0.7423 | 0.400                    | -0.9102 | 0.400                      | -0.8495 |
| 0.450                       | -0.7306 | 0.450                    | -0.8691 | 0.450                      | -0.7530 |
| 0.500                       | -0.4724 | 0.500                    | -0.4533 | 0.500                      | -0.3688 |
| 0.550                       | -0.4038 | 0.550                    | -0.4440 | 0.550                      | -0.3988 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.3706 | 0.005 | 0.3898 | 0.005 | 0.3389 |
| 0.010         | 0.1483 | 0.010 | 0.1192 | 0.010 | 0.0216 |

Flight 22 Test point 45

Sweep, deg = 30.1 Mach = 0.80 hp, ft = 25000, Angle of attack, deg = 2.0  
 Angle of sideslip, deg = 0.4 QBAR, lb/ft<sup>2</sup> = 353.0 Rnpu = 2804000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7888  | 0.000                    | 0.8124  | 0.000                      | 0.8120  |
| 0.005                       | -0.0458 | 0.005                    | -0.0293 | 0.005                      | 0.2153  |
| 0.010                       | -0.2893 | 0.010                    | -0.2663 | 0.010                      | -0.0667 |
| 0.020                       | -0.5166 | 0.020                    | -0.4911 | 0.020                      | -0.3993 |
| 0.040                       | -0.6936 | 0.040                    | -0.6240 | 0.040                      | -0.5401 |
| 0.060                       | -0.7144 | 0.060                    | -0.6724 | 0.060                      | -0.5713 |
| 0.080                       | -0.7307 | 0.080                    | -0.7209 | 0.080                      | -0.6594 |
| 0.100                       | -0.7453 | 0.100                    | -0.7281 | 0.100                      | -0.7585 |
| 0.125                       | -0.6879 | 0.125                    | -0.7125 | 0.125                      | -0.6294 |
| 0.150                       | -0.7746 | 0.150                    | -0.7408 | 0.150                      | -0.6488 |
| 0.175                       | -0.7734 | 0.175                    | -0.7692 | 0.175                      | -0.7163 |
| 0.200                       | -0.8280 | 0.200                    | -0.7794 | 0.200                      | -0.7091 |
| 0.250                       | -0.9033 | 0.250                    | -0.8544 | 0.250                      | -0.7823 |
| 0.300                       | -0.9484 | 0.300                    | -0.9083 | 0.300                      | -0.8168 |
| 0.350                       | -0.9077 | 0.350                    | -0.9356 | 0.350                      | -0.8823 |
| 0.400                       | -0.7363 | 0.400                    | -1.0119 | 0.400                      | -0.9135 |
| 0.450                       | -0.7579 | 0.450                    | -1.0220 | 0.450                      | -0.9594 |
| 0.500                       | -0.5351 | 0.500                    | -0.6952 | 0.500                      | -0.6207 |
| 0.550                       | -0.4004 | 0.550                    | -0.4227 | 0.550                      | -0.3606 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4673 | 0.005 | 0.4895 | 0.005 | 0.4497 |
| 0.010 | 0.2608 | 0.010 | 0.2417 | 0.010 | 0.1636 |

Fight 22 Test point 46

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 336.7 Rnpu = 2926000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9582  | 0.000                    | 0.9919  | 0.000                      | 0.9838  |
| 0.005                       | 0.2059  | 0.005                    | 0.2724  | 0.005                      | 0.5442  |
| 0.010                       | -0.0681 | 0.010                    | 0.0094  | 0.010                      | 0.2625  |
| 0.020                       | -0.3213 | 0.020                    | -0.2533 | 0.020                      | -0.0862 |
| 0.040                       | -0.5078 | 0.040                    | -0.4245 | 0.040                      | -0.2683 |
| 0.060                       | -0.5574 | 0.060                    | -0.4734 | 0.060                      | -0.3647 |
| 0.080                       | -0.5870 | 0.080                    | -0.5115 | 0.080                      | -0.3974 |
| 0.100                       | -0.6056 | 0.100                    | -0.5256 | 0.100                      | -0.4220 |
| 0.125                       | -0.6597 | 0.125                    | -0.5413 | 0.125                      | -0.4348 |
| 0.150                       | -0.6373 | 0.150                    | -0.5752 | 0.150                      | -0.4637 |
| 0.175                       | -0.6320 | 0.175                    | -0.6135 | 0.175                      | -0.4932 |
| 0.200                       | -0.6811 | 0.200                    | -0.6331 | 0.200                      | -0.4917 |
| 0.250                       | -0.6864 | 0.250                    | -0.6846 | 0.250                      | -0.5480 |
| 0.300                       | -0.6761 | 0.300                    | -0.6698 | 0.300                      | -0.5513 |
| 0.350                       | -0.6271 | 0.350                    | -0.6356 | 0.350                      | -0.5630 |
| 0.400                       | -0.5722 | 0.400                    | -0.6229 | 0.400                      | -0.5424 |
| 0.450                       | -0.5127 | 0.450                    | -0.5626 | 0.450                      | -0.5236 |
| 0.500                       | -0.4898 | 0.500                    | -0.5431 | 0.500                      | -0.4789 |
| 0.550                       | -0.4279 | 0.550                    | -0.5323 | 0.550                      | -0.4657 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3395 | 0.005 | 0.3264  | 0.005 | 0.2220  |
| 0.010 | 0.0645 | 0.010 | -0.0129 | 0.010 | -0.1953 |

Fight 22 Test point 47

Sweep, deg = 20.0 Mach = 0.71 hp, ft = 19900. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 340.5 Rnpu = 2945000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9560  | 0.000                    | 0.9929  | 0.000                      | 0.9857  |
| 0.005                       | 0.1516  | 0.005                    | 0.2215  | 0.005                      | 0.5028  |
| 0.010                       | -0.1223 | 0.010                    | -0.0461 | 0.010                      | 0.2132  |
| 0.020                       | -0.3817 | 0.020                    | -0.3095 | 0.020                      | -0.1365 |
| 0.040                       | -0.5620 | 0.040                    | -0.4746 | 0.040                      | -0.3165 |
| 0.060                       | -0.6112 | 0.060                    | -0.5248 | 0.060                      | -0.4089 |
| 0.080                       | -0.6349 | 0.080                    | -0.5568 | 0.080                      | -0.4372 |
| 0.100                       | -0.6487 | 0.100                    | -0.5695 | 0.100                      | -0.4585 |
| 0.125                       | -0.5908 | 0.125                    | -0.5802 | 0.125                      | -0.4716 |
| 0.150                       | -0.6749 | 0.150                    | -0.6155 | 0.150                      | -0.4982 |
| 0.175                       | -0.6650 | 0.175                    | -0.6518 | 0.175                      | -0.5270 |
| 0.200                       | -0.7183 | 0.200                    | -0.6676 | 0.200                      | -0.5238 |
| 0.250                       | -0.7184 | 0.250                    | -0.7136 | 0.250                      | -0.5746 |
| 0.300                       | -0.7027 | 0.300                    | -0.6992 | 0.300                      | -0.5794 |
| 0.350                       | -0.6456 | 0.350                    | -0.6610 | 0.350                      | -0.5859 |
| 0.400                       | -0.5857 | 0.400                    | -0.6416 | 0.400                      | -0.5602 |
| 0.450                       | -0.5240 | 0.450                    | -0.5790 | 0.450                      | -0.5374 |
| 0.500                       | -0.5013 | 0.500                    | -0.5547 | 0.500                      | -0.4920 |
| 0.550                       | -0.4389 | 0.550                    | -0.5403 | 0.550                      | -0.4765 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3867 | 0.005 | 0.3748 | 0.005 | 0.2722  |
| 0.010 | 0.1185 | 0.010 | 0.0415 | 0.010 | -0.1282 |



Flight 22 Test point 48

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 20100. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 334.5 Rnpu = 2908000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9321  | 0.000                    | 0.9690  | 0.000                      | 0.9724  |
| 0.005                       | -0.0578 | 0.005                    | 0.0070  | 0.005                      | 0.3351  |
| 0.010                       | -0.3445 | 0.010                    | -0.2729 | 0.010                      | 0.0142  |
| 0.020                       | -0.6012 | 0.020                    | -0.5310 | 0.020                      | -0.3540 |
| 0.040                       | -0.7681 | 0.040                    | -0.6815 | 0.040                      | -0.5079 |
| 0.060                       | -0.7923 | 0.060                    | -0.7009 | 0.060                      | -0.5812 |
| 0.080                       | -0.7929 | 0.080                    | -0.7156 | 0.080                      | -0.5952 |
| 0.100                       | -0.7974 | 0.100                    | -0.7165 | 0.100                      | -0.6002 |
| 0.125                       | -0.7045 | 0.125                    | -0.7129 | 0.125                      | -0.5942 |
| 0.150                       | -0.7941 | 0.150                    | -0.7353 | 0.150                      | -0.6153 |
| 0.175                       | -0.7653 | 0.175                    | -0.7639 | 0.175                      | -0.6308 |
| 0.200                       | -0.8156 | 0.200                    | -0.7763 | 0.200                      | -0.6214 |
| 0.250                       | -0.8049 | 0.250                    | -0.8137 | 0.250                      | -0.6613 |
| 0.300                       | -0.7728 | 0.300                    | -0.7788 | 0.300                      | -0.6493 |
| 0.350                       | -0.6971 | 0.350                    | -0.7220 | 0.350                      | -0.6457 |
| 0.400                       | -0.6283 | 0.400                    | -0.6878 | 0.400                      | -0.6098 |
| 0.450                       | -0.5552 | 0.450                    | -0.6173 | 0.450                      | -0.5778 |
| 0.500                       | -0.5258 | 0.500                    | -0.5867 | 0.500                      | -0.5240 |
| 0.550                       | -0.4579 | 0.550                    | -0.5640 | 0.550                      | -0.4976 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5391 | 0.005 | 0.5388 | 0.005 | 0.4523 |
| 0.010 | 0.2940 | 0.010 | 0.2404 | 0.010 | 0.0906 |

Flight 22 Test point 49

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 19900. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 335.5 Rnpu = 2921000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8800  | 0.000                    | 0.9118  | 0.000                      | 0.9120  |
| 0.005                       | 0.0778  | 0.005                    | 0.1356  | 0.005                      | 0.4152  |
| 0.010                       | -0.1787 | 0.010                    | -0.1121 | 0.010                      | 0.1378  |
| 0.020                       | -0.4137 | 0.020                    | -0.3549 | 0.020                      | -0.1908 |
| 0.040                       | -0.5608 | 0.040                    | -0.4932 | 0.040                      | -0.3477 |
| 0.060                       | -0.5924 | 0.060                    | -0.5264 | 0.060                      | -0.4223 |
| 0.080                       | -0.6065 | 0.080                    | -0.5491 | 0.080                      | -0.4448 |
| 0.100                       | -0.6161 | 0.100                    | -0.5545 | 0.100                      | -0.4519 |
| 0.125                       | -0.6355 | 0.125                    | -0.5573 | 0.125                      | -0.4513 |
| 0.150                       | -0.6243 | 0.150                    | -0.5791 | 0.150                      | -0.4716 |
| 0.175                       | -0.6146 | 0.175                    | -0.6052 | 0.175                      | -0.5016 |
| 0.200                       | -0.6566 | 0.200                    | -0.6183 | 0.200                      | -0.4976 |
| 0.250                       | -0.6583 | 0.250                    | -0.6530 | 0.250                      | -0.5413 |
| 0.300                       | -0.6453 | 0.300                    | -0.6385 | 0.300                      | -0.5362 |
| 0.350                       | -0.5952 | 0.350                    | -0.6007 | 0.350                      | -0.5393 |
| 0.400                       | -0.5462 | 0.400                    | -0.5877 | 0.400                      | -0.5176 |
| 0.450                       | -0.4910 | 0.450                    | -0.5346 | 0.450                      | -0.4940 |
| 0.500                       | -0.4703 | 0.500                    | -0.5197 | 0.500                      | -0.4590 |
| 0.550                       | -0.4119 | 0.550                    | -0.5078 | 0.550                      | -0.4562 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3738 | 0.005 | 0.3725 | 0.005 | 0.2786  |
| 0.010 | 0.1287 | 0.010 | 0.0702 | 0.010 | -0.0852 |

Fight 22 Test point 50

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 19900. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 337.2 Rnpu = 2933000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8736  | 0.000                    | 0.9034  | 0.000                      | 0.9042  |
| 0.005                       | 0.0276  | 0.005                    | 0.0796  | 0.005                      | 0.3748  |
| 0.010                       | -0.2337 | 0.010                    | -0.1711 | 0.010                      | 0.0851  |
| 0.020                       | -0.4644 | 0.020                    | -0.4097 | 0.020                      | -0.2459 |
| 0.040                       | -0.6119 | 0.040                    | -0.5416 | 0.040                      | -0.3948 |
| 0.060                       | -0.6379 | 0.060                    | -0.5702 | 0.060                      | -0.4704 |
| 0.080                       | -0.6506 | 0.080                    | -0.5872 | 0.080                      | -0.4847 |
| 0.100                       | -0.6516 | 0.100                    | -0.5905 | 0.100                      | -0.4874 |
| 0.125                       | -0.5826 | 0.125                    | -0.5934 | 0.125                      | -0.4818 |
| 0.150                       | -0.6577 | 0.150                    | -0.6130 | 0.150                      | -0.5075 |
| 0.175                       | -0.6404 | 0.175                    | -0.6371 | 0.175                      | -0.5330 |
| 0.200                       | -0.6844 | 0.200                    | -0.6438 | 0.200                      | -0.5245 |
| 0.250                       | -0.6869 | 0.250                    | -0.6827 | 0.250                      | -0.5634 |
| 0.300                       | -0.6652 | 0.300                    | -0.6631 | 0.300                      | -0.5584 |
| 0.350                       | -0.6137 | 0.350                    | -0.6199 | 0.350                      | -0.5573 |
| 0.400                       | -0.5585 | 0.400                    | -0.6045 | 0.400                      | -0.5350 |
| 0.450                       | -0.5001 | 0.450                    | -0.5501 | 0.450                      | -0.5100 |
| 0.500                       | -0.4787 | 0.500                    | -0.5253 | 0.500                      | -0.4710 |
| 0.550                       | -0.4189 | 0.550                    | -0.5181 | 0.550                      | -0.4621 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4131 | 0.005 | 0.4149 | 0.005 | 0.3280  |
| 0.010 | 0.1733 | 0.010 | 0.1202 | 0.010 | -0.0276 |

Fight 22 Test point 51

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 20200. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 334.2 Rnpu = 2906000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8587  | 0.000                    | 0.8872  | 0.000                      | 0.8990  |
| 0.005                       | -0.0897 | 0.005                    | -0.0342 | 0.005                      | 0.2850  |
| 0.010                       | -0.3578 | 0.010                    | -0.2935 | 0.010                      | -0.0167 |
| 0.020                       | -0.5862 | 0.020                    | -0.5273 | 0.020                      | -0.3612 |
| 0.040                       | -0.7233 | 0.040                    | -0.6543 | 0.040                      | -0.4976 |
| 0.060                       | -0.7364 | 0.060                    | -0.6633 | 0.060                      | -0.5591 |
| 0.080                       | -0.7329 | 0.080                    | -0.6725 | 0.080                      | -0.5627 |
| 0.100                       | -0.7299 | 0.100                    | -0.6682 | 0.100                      | -0.5601 |
| 0.125                       | -0.6395 | 0.125                    | -0.6645 | 0.125                      | -0.5447 |
| 0.150                       | -0.7151 | 0.150                    | -0.6799 | 0.150                      | -0.5628 |
| 0.175                       | -0.6938 | 0.175                    | -0.6945 | 0.175                      | -0.5871 |
| 0.200                       | -0.7370 | 0.200                    | -0.6983 | 0.200                      | -0.5753 |
| 0.250                       | -0.7276 | 0.250                    | -0.7304 | 0.250                      | -0.6098 |
| 0.300                       | -0.7034 | 0.300                    | -0.7046 | 0.300                      | -0.5932 |
| 0.350                       | -0.6414 | 0.350                    | -0.6590 | 0.350                      | -0.5848 |
| 0.400                       | -0.5811 | 0.400                    | -0.6341 | 0.400                      | -0.5567 |
| 0.450                       | -0.5210 | 0.450                    | -0.5712 | 0.450                      | -0.5301 |
| 0.500                       | -0.4978 | 0.500                    | -0.5445 | 0.500                      | -0.4859 |
| 0.550                       | -0.4336 | 0.550                    | -0.5275 | 0.550                      | -0.4736 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4943 | 0.005 | 0.4962 | 0.005 | 0.4171 |
| 0.010 | 0.2626 | 0.010 | 0.2185 | 0.010 | 0.0849 |

Flight 22 Test point 52

Sweep, deg = 30.4 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 330.7 Rnpu = 2899000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7828  | 0.000                    | 0.8147  | 0.000                      | 0.8161  |
| 0.035                       | -0.0075 | 0.005                    | 0.0358  | 0.005                      | 0.3129  |
| 0.010                       | -0.2391 | 0.010                    | -0.1886 | 0.010                      | 0.0455  |
| 0.020                       | -0.4408 | 0.020                    | -0.3995 | 0.020                      | -0.2533 |
| 0.040                       | -0.5581 | 0.040                    | -0.5048 | 0.040                      | -0.3615 |
| 0.060                       | -0.5611 | 0.060                    | -0.5047 | 0.060                      | -0.4156 |
| 0.080                       | -0.5762 | 0.080                    | -0.5237 | 0.080                      | -0.4321 |
| 0.100                       | -0.5775 | 0.100                    | -0.5259 | 0.100                      | -0.4401 |
| 0.125                       | -0.5250 | 0.125                    | -0.5225 | 0.125                      | -0.4389 |
| 0.150                       | -0.5801 | 0.150                    | -0.5449 | 0.150                      | -0.4545 |
| 0.175                       | -0.5678 | 0.175                    | -0.5637 | 0.175                      | -0.4758 |
| 0.200                       | -0.5989 | 0.200                    | -0.5717 | 0.200                      | -0.4669 |
| 0.250                       | -0.6019 | 0.250                    | -0.5965 | 0.250                      | -0.4998 |
| 0.300                       | -0.5853 | 0.300                    | -0.5772 | 0.300                      | -0.4906 |
| 0.350                       | -0.5406 | 0.350                    | -0.5434 | 0.350                      | -0.4918 |
| 0.400                       | -0.4954 | 0.400                    | -0.5333 | 0.400                      | -0.4727 |
| 0.450                       | -0.4467 | 0.450                    | -0.4876 | 0.450                      | -0.4530 |
| 0.500                       | -0.4319 | 0.500                    | -0.4706 | 0.500                      | -0.4222 |
| 0.550                       | -0.3819 | 0.550                    | -0.4636 | 0.550                      | -0.4240 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3627 | 0.005 | 0.3748 | 0.005 | 0.2968  |
| 0.010 | 0.1460 | 0.010 | 0.1088 | 0.010 | -0.0239 |

Fight 22 Test point 53

Sweep, deg = 30.4 Mach = 0.70 hp, ft = 19900. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 335.7 RnpU = 2922000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7675  | 0.000                    | 0.7886  | 0.000                      | 0.7986  |
| 0.005                       | -0.1281 | 0.005                    | -0.0937 | 0.005                      | 0.2072  |
| 0.010                       | -0.3648 | 0.010                    | -0.3225 | 0.010                      | -0.0770 |
| 0.020                       | -0.5658 | 0.020                    | -0.5231 | 0.020                      | -0.3778 |
| 0.040                       | -0.6592 | 0.040                    | -0.6184 | 0.040                      | -0.4715 |
| 0.060                       | -0.6527 | 0.060                    | -0.6049 | 0.060                      | -0.5146 |
| 0.080                       | -0.6585 | 0.080                    | -0.6065 | 0.080                      | -0.5153 |
| 0.100                       | -0.6516 | 0.100                    | -0.6021 | 0.100                      | -0.5176 |
| 0.125                       | -0.5800 | 0.125                    | -0.5959 | 0.125                      | -0.5087 |
| 0.150                       | -0.6408 | 0.150                    | -0.6097 | 0.150                      | -0.5196 |
| 0.175                       | -0.6228 | 0.175                    | -0.6228 | 0.175                      | -0.5368 |
| 0.200                       | -0.6534 | 0.200                    | -0.6269 | 0.200                      | -0.5231 |
| 0.250                       | -0.6512 | 0.250                    | -0.6489 | 0.250                      | -0.5481 |
| 0.300                       | -0.6241 | 0.300                    | -0.6272 | 0.300                      | -0.5309 |
| 0.350                       | -0.5766 | 0.350                    | -0.5843 | 0.350                      | -0.5291 |
| 0.400                       | -0.5218 | 0.400                    | -0.5634 | 0.400                      | -0.5024 |
| 0.450                       | -0.4699 | 0.450                    | -0.5104 | 0.450                      | -0.4795 |
| 0.500                       | -0.4508 | 0.500                    | -0.4887 | 0.500                      | -0.4412 |
| 0.550                       | -0.3961 | 0.550                    | -0.4777 | 0.550                      | -0.4409 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4441 | 0.005 | 0.4593 | 0.005 | 0.3924 |
| 0.010 | 0.2347 | 0.010 | 0.2098 | 0.010 | 0.0925 |

Fight 22 Test point 54

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 333.4 Rnpu = 2906000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.6907  | 0.000                    | 0.7131  | 0.000                      | 0.7219  |
| 0.005                       | -0.0869 | 0.005                    | -0.0666 | 0.005                      | 0.2021  |
| 0.010                       | -0.2993 | 0.010                    | -0.2574 | 0.010                      | -0.0423 |
| 0.020                       | -0.4708 | 0.020                    | -0.4433 | 0.020                      | -0.2997 |
| 0.040                       | -0.5530 | 0.040                    | -0.5081 | 0.040                      | -0.3956 |
| 0.060                       | -0.5569 | 0.060                    | -0.5185 | 0.060                      | -0.4363 |
| 0.080                       | -0.5580 | 0.080                    | -0.5219 | 0.080                      | -0.4394 |
| 0.100                       | -0.5545 | 0.100                    | -0.5174 | 0.100                      | -0.4424 |
| 0.125                       | -0.4989 | 0.125                    | -0.5094 | 0.125                      | -0.4361 |
| 0.150                       | -0.5460 | 0.150                    | -0.5189 | 0.150                      | -0.4460 |
| 0.175                       | -0.5321 | 0.175                    | -0.5303 | 0.175                      | -0.4569 |
| 0.200                       | -0.5598 | 0.200                    | -0.5361 | 0.200                      | -0.4465 |
| 0.250                       | -0.5569 | 0.250                    | -0.5525 | 0.250                      | -0.4682 |
| 0.300                       | -0.5383 | 0.300                    | -0.5344 | 0.300                      | -0.4603 |
| 0.350                       | -0.4985 | 0.350                    | -0.4948 | 0.350                      | -0.4565 |
| 0.400                       | -0.4587 | 0.400                    | -0.4896 | 0.400                      | -0.4358 |
| 0.450                       | -0.4135 | 0.450                    | -0.4445 | 0.450                      | -0.4160 |
| 0.500                       | -0.3986 | 0.500                    | -0.4321 | 0.500                      | -0.3903 |
| 0.550                       | -0.3527 | 0.550                    | -0.4278 | 0.550                      | -0.3995 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3689 | 0.005 | 0.3845 | 0.005 | 0.3217 |
| 0.010 | 0.1781 | 0.010 | 0.1562 | 0.010 | 0.0545 |

Fight 22 Test point 55

Sweep, deg = 35.0 Mach = 0.70 hp, ft = 19800. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 339.2 Rnpu = 2941000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.6943  | 0.000                    | 0.7219  | 0.000                      | 0.7251  |
| 0.005                       | -0.0390 | 0.005                    | -0.0107 | 0.005                      | 0.2475  |
| 0.010                       | -0.2525 | 0.010                    | -0.2103 | 0.010                      | 0.0044  |
| 0.020                       | -0.4193 | 0.020                    | -0.3899 | 0.020                      | -0.2623 |
| 0.040                       | -0.5072 | 0.040                    | -0.4525 | 0.040                      | -0.3506 |
| 0.060                       | -0.5229 | 0.060                    | -0.4777 | 0.060                      | -0.3950 |
| 0.080                       | -0.5326 | 0.080                    | -0.4912 | 0.080                      | -0.4041 |
| 0.100                       | -0.5295 | 0.100                    | -0.4903 | 0.100                      | -0.4126 |
| 0.125                       | -0.4786 | 0.125                    | -0.4832 | 0.125                      | -0.4119 |
| 0.150                       | -0.5261 | 0.150                    | -0.4988 | 0.150                      | -0.4237 |
| 0.175                       | -0.5145 | 0.175                    | -0.5080 | 0.175                      | -0.4385 |
| 0.200                       | -0.5434 | 0.200                    | -0.5157 | 0.200                      | -0.4285 |
| 0.250                       | -0.5434 | 0.250                    | -0.5375 | 0.250                      | -0.4514 |
| 0.300                       | -0.5290 | 0.300                    | -0.5227 | 0.300                      | -0.4455 |
| 0.350                       | -0.4915 | 0.350                    | -0.4913 | 0.350                      | -0.4469 |
| 0.400                       | -0.4520 | 0.400                    | -0.4803 | 0.400                      | -0.4300 |
| 0.450                       | -0.4052 | 0.450                    | -0.4392 | 0.450                      | -0.4123 |
| 0.500                       | -0.3947 | 0.500                    | -0.4248 | 0.500                      | -0.3859 |
| 0.550                       | -0.3494 | 0.550                    | -0.4216 | 0.550                      | -0.3962 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3278 | 0.005 | 0.3439 | 0.005 | 0.2765  |
| 0.010 | 0.1288 | 0.010 | 0.1067 | 0.010 | -0.0059 |



Flight 22 Test point 56

Sweep, deg = 35.0 Mach = 0.70 h<sub>q</sub>, ft = 19800. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 340.3 R<sub>rho</sub> = 2946000.

Upper surface

| BL 200.8<br>Inboard station |                | BL 260<br>Middle station |                | BL 320<br>Outboard station |                |
|-----------------------------|----------------|--------------------------|----------------|----------------------------|----------------|
| x/c                         | C <sub>p</sub> | x/c                      | C <sub>p</sub> | x/c                        | C <sub>p</sub> |
| 0.000                       | 0.6795         | 0.000                    | 0.6997         | 0.000                      | 0.7127         |
| 0.005                       | -0.1586        | 0.005                    | -0.1346        | 0.005                      | 0.1446         |
| 0.010                       | -0.3726        | 0.010                    | -0.3312        | 0.010                      | -0.1074        |
| 0.020                       | -0.5425        | 0.020                    | -0.5191        | 0.020                      | -0.3728        |
| 0.040                       | -0.6152        | 0.040                    | -0.5724        | 0.040                      | -0.4596        |
| 0.060                       | -0.6095        | 0.060                    | -0.5708        | 0.060                      | -0.4915        |
| 0.080                       | -0.6074        | 0.080                    | -0.5689        | 0.080                      | -0.4853        |
| 0.100                       | -0.5955        | 0.100                    | -0.5582        | 0.100                      | -0.4826        |
| 0.125                       | -0.5261        | 0.125                    | -0.5433        | 0.125                      | -0.4691        |
| 0.150                       | -0.5801        | 0.150                    | -0.5576        | 0.150                      | -0.4762        |
| 0.175                       | -0.5606        | 0.175                    | -0.5677        | 0.175                      | -0.4881        |
| 0.200                       | -0.5885        | 0.200                    | -0.5652        | 0.200                      | -0.4749        |
| 0.250                       | -0.5813        | 0.250                    | -0.5795        | 0.250                      | -0.4936        |
| 0.300                       | -0.5614        | 0.300                    | -0.5555        | 0.300                      | -0.4778        |
| 0.350                       | -0.5137        | 0.350                    | -0.5180        | 0.350                      | -0.4721        |
| 0.400                       | -0.4735        | 0.400                    | -0.5080        | 0.400                      | -0.4520        |
| 0.450                       | -0.4282        | 0.450                    | -0.4618        | 0.450                      | -0.4320        |
| 0.500                       | -0.4106        | 0.500                    | -0.4444        | 0.500                      | -0.4025        |
| 0.550                       | -0.3612        | 0.550                    | -0.4350        | 0.550                      | -0.4072        |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4118 | 0.005 | 0.4344 | 0.005 | 0.3746 |
| 0.010 | 0.2267 | 0.010 | 0.2110 | 0.010 | 0.1217 |

Flight 22 Test point 57

Sweep, deg = 35.2 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 385.1 Rnpu = 3148000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7119  | 0.000                    | 0.7380  | 0.000                      | 0.7381  |
| 0.005                       | 0.0666  | 0.005                    | 0.0917  | 0.005                      | 0.3206  |
| 0.010                       | -0.1501 | 0.010                    | -0.1072 | 0.010                      | 0.0930  |
| 0.020                       | -0.3373 | 0.020                    | -0.3135 | 0.020                      | -0.1773 |
| 0.040                       | -0.4594 | 0.040                    | -0.4153 | 0.040                      | -0.3067 |
| 0.060                       | -0.4859 | 0.060                    | -0.4508 | 0.060                      | -0.3707 |
| 0.080                       | -0.5090 | 0.080                    | -0.4679 | 0.080                      | -0.3910 |
| 0.100                       | -0.5137 | 0.100                    | -0.4741 | 0.100                      | -0.4019 |
| 0.125                       | -0.4736 | 0.125                    | -0.4743 | 0.125                      | -0.4092 |
| 0.150                       | -0.5287 | 0.150                    | -0.4992 | 0.150                      | -0.4234 |
| 0.175                       | -0.5243 | 0.175                    | -0.5202 | 0.175                      | -0.4430 |
| 0.200                       | -0.5530 | 0.200                    | -0.5306 | 0.200                      | -0.4417 |
| 0.250                       | -0.5633 | 0.250                    | -0.5612 | 0.250                      | -0.4744 |
| 0.300                       | -0.5559 | 0.300                    | -0.5511 | 0.300                      | -0.4706 |
| 0.350                       | -0.5199 | 0.350                    | -0.5168 | 0.350                      | -0.4728 |
| 0.400                       | -0.4770 | 0.400                    | -0.5027 | 0.400                      | -0.4490 |
| 0.450                       | -0.4279 | 0.450                    | -0.4620 | 0.450                      | -0.4306 |
| 0.500                       | -0.4152 | 0.500                    | -0.4464 | 0.500                      | -0.4000 |
| 0.550                       | -0.3652 | 0.550                    | -0.4389 | 0.550                      | -0.4067 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.2798 | 0.005 | 0.2934 | 0.005 | 0.2250  |
| 0.010 | 0.0763 | 0.010 | 0.0439 | 0.010 | -0.0646 |

Fight 22 Test point 58

Sweep, deg = 35.2 Mach = 0.76 hp, ft = 20000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 389.4 Rnpu = 3166000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.6974  | 0.000                    | 0.7159  | 0.000                      | 0.7227  |
| 0.005                       | -0.0863 | 0.005                    | -0.0754 | 0.005                      | 0.1803  |
| 0.010                       | -0.3081 | 0.010                    | -0.2859 | 0.010                      | -0.0696 |
| 0.020                       | -0.4958 | 0.020                    | -0.4878 | 0.020                      | -0.3523 |
| 0.040                       | -0.6040 | 0.040                    | -0.5710 | 0.040                      | -0.4589 |
| 0.060                       | -0.6131 | 0.060                    | -0.5829 | 0.060                      | -0.5140 |
| 0.080                       | -0.6203 | 0.080                    | -0.5935 | 0.080                      | -0.5100 |
| 0.100                       | -0.6180 | 0.100                    | -0.5864 | 0.100                      | -0.5080 |
| 0.125                       | -0.5549 | 0.125                    | -0.5772 | 0.125                      | -0.5025 |
| 0.150                       | -0.6148 | 0.150                    | -0.5924 | 0.150                      | -0.5127 |
| 0.175                       | -0.6047 | 0.175                    | -0.6061 | 0.175                      | -0.5278 |
| 0.200                       | -0.6348 | 0.200                    | -0.6109 | 0.200                      | -0.5166 |
| 0.250                       | -0.6355 | 0.250                    | -0.6385 | 0.250                      | -0.5429 |
| 0.300                       | -0.6168 | 0.300                    | -0.6118 | 0.300                      | -0.5263 |
| 0.350                       | -0.5685 | 0.350                    | -0.5678 | 0.350                      | -0.5176 |
| 0.400                       | -0.5156 | 0.400                    | -0.5487 | 0.400                      | -0.4903 |
| 0.450                       | -0.4593 | 0.450                    | -0.4953 | 0.450                      | -0.4590 |
| 0.500                       | -0.4389 | 0.500                    | -0.4705 | 0.500                      | -0.4217 |
| 0.550                       | -0.3852 | 0.550                    | -0.4594 | 0.550                      | -0.4200 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3915 | 0.005 | 0.4172 | 0.005 | 0.3634 |
| 0.010 | 0.2001 | 0.010 | 0.1894 | 0.010 | 0.1074 |

Fight 22 Test point 59

Sweep, deg = 30.2 Mach = 0.76 hp, ft = 20000. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 388.0 Rnpu = 3163000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8067  | 0.000                    | 0.8335  | 0.000                      | 0.8260  |
| 0.005                       | 0.1117  | 0.005                    | 0.1450  | 0.005                      | 0.3872  |
| 0.010                       | -0.1242 | 0.010                    | -0.0758 | 0.010                      | 0.1357  |
| 0.020                       | -0.3446 | 0.020                    | -0.3151 | 0.020                      | -0.1648 |
| 0.040                       | -0.4974 | 0.040                    | -0.4433 | 0.040                      | -0.3233 |
| 0.060                       | -0.5361 | 0.060                    | -0.4891 | 0.060                      | -0.4054 |
| 0.080                       | -0.5646 | 0.080                    | -0.5188 | 0.080                      | -0.4295 |
| 0.100                       | -0.5800 | 0.100                    | -0.5291 | 0.100                      | -0.4459 |
| 0.125                       | -0.5342 | 0.125                    | -0.5356 | 0.125                      | -0.4563 |
| 0.150                       | -0.6022 | 0.150                    | -0.5653 | 0.150                      | -0.4804 |
| 0.175                       | -0.5974 | 0.175                    | -0.5989 | 0.175                      | -0.5085 |
| 0.200                       | -0.6333 | 0.200                    | -0.6128 | 0.200                      | -0.5039 |
| 0.250                       | -0.6485 | 0.250                    | -0.6636 | 0.250                      | -0.5492 |
| 0.300                       | -0.6500 | 0.300                    | -0.6525 | 0.300                      | -0.5478 |
| 0.350                       | -0.6013 | 0.350                    | -0.6073 | 0.350                      | -0.5459 |
| 0.400                       | -0.5455 | 0.400                    | -0.5802 | 0.400                      | -0.5174 |
| 0.450                       | -0.4872 | 0.450                    | -0.5299 | 0.450                      | -0.4837 |
| 0.500                       | -0.4640 | 0.500                    | -0.5039 | 0.500                      | -0.4446 |
| 0.550                       | -0.4074 | 0.550                    | -0.4895 | 0.550                      | -0.4363 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3215 | 0.005 | 0.3281 | 0.005 | 0.2533  |
| 0.010 | 0.0963 | 0.010 | 0.0502 | 0.010 | -0.0756 |

Fight 22 Test point 60

Sweep, deg = 30.1 Mach = 0.75 hp, ft = 20100. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 381.5 R<sub>pu</sub> = 3129000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7832  | 0.000                    | 0.8079  | 0.000                      | 0.8134  |
| 0.005                       | -0.0871 | 0.005                    | -0.0573 | 0.005                      | 0.2207  |
| 0.010                       | -0.3325 | 0.010                    | -0.2994 | 0.010                      | -0.0641 |
| 0.020                       | -0.5498 | 0.020                    | -0.5167 | 0.020                      | -0.3872 |
| 0.040                       | -0.6833 | 0.040                    | -0.6421 | 0.040                      | -0.4966 |
| 0.060                       | -0.7022 | 0.060                    | -0.6636 | 0.060                      | -0.5709 |
| 0.080                       | -0.6925 | 0.080                    | -0.6609 | 0.080                      | -0.5681 |
| 0.100                       | -0.7066 | 0.100                    | -0.6832 | 0.100                      | -0.5677 |
| 0.125                       | -0.6280 | 0.125                    | -0.6478 | 0.125                      | -0.5735 |
| 0.150                       | -0.6983 | 0.150                    | -0.6738 | 0.150                      | -0.5816 |
| 0.175                       | -0.6807 | 0.175                    | -0.7207 | 0.175                      | -0.6032 |
| 0.200                       | -0.7344 | 0.200                    | -0.7148 | 0.200                      | -0.5919 |
| 0.250                       | -0.7357 | 0.250                    | -0.7605 | 0.250                      | -0.6275 |
| 0.300                       | -0.7286 | 0.300                    | -0.7177 | 0.300                      | -0.6107 |
| 0.350                       | -0.6510 | 0.350                    | -0.6574 | 0.350                      | -0.5930 |
| 0.400                       | -0.5795 | 0.400                    | -0.6222 | 0.400                      | -0.5582 |
| 0.450                       | -0.5097 | 0.450                    | -0.5596 | 0.450                      | -0.5189 |
| 0.500                       | -0.4843 | 0.500                    | -0.5257 | 0.500                      | -0.4656 |
| 0.550                       | -0.4210 | 0.550                    | -0.5052 | 0.550                      | -0.4531 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4526 | 0.005 | 0.4698 | 0.005 | 0.4130 |
| 0.010 | 0.2419 | 0.010 | 0.2193 | 0.010 | 0.1198 |

Fight 22 Test point 61

Sweep, deg = 25.0 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 386.3 Rnpu = 3149000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8940  | 0.000                    | 0.9291  | 0.000                      | 0.9157  |
| 0.005                       | 0.2605  | 0.005                    | 0.3131  | 0.005                      | 0.5413  |
| 0.010                       | 0.0084  | 0.010                    | 0.0657  | 0.010                      | 0.2822  |
| 0.020                       | -0.2351 | 0.020                    | -0.1878 | 0.020                      | -0.0432 |
| 0.040                       | -0.4198 | 0.040                    | -0.3599 | 0.040                      | -0.2250 |
| 0.060                       | -0.4810 | 0.060                    | -0.4230 | 0.060                      | -0.3223 |
| 0.080                       | -0.5234 | 0.080                    | -0.4645 | 0.080                      | -0.3623 |
| 0.100                       | -0.5496 | 0.100                    | -0.4782 | 0.100                      | -0.3893 |
| 0.125                       | -0.5228 | 0.125                    | -0.5011 | 0.125                      | -0.4125 |
| 0.150                       | -0.5982 | 0.150                    | -0.5466 | 0.150                      | -0.4507 |
| 0.175                       | -0.6112 | 0.175                    | -0.5896 | 0.175                      | -0.4892 |
| 0.200                       | -0.6547 | 0.200                    | -0.6144 | 0.200                      | -0.4980 |
| 0.250                       | -0.6970 | 0.250                    | -0.6914 | 0.250                      | -0.5599 |
| 0.300                       | -0.6986 | 0.300                    | -0.6977 | 0.300                      | -0.5759 |
| 0.350                       | -0.6493 | 0.350                    | -0.6473 | 0.350                      | -0.5782 |
| 0.400                       | -0.5837 | 0.400                    | -0.6262 | 0.400                      | -0.5542 |
| 0.450                       | -0.5131 | 0.450                    | -0.5685 | 0.450                      | -0.5280 |
| 0.500                       | -0.4883 | 0.500                    | -0.5430 | 0.500                      | -0.4746 |
| 0.550                       | -0.4287 | 0.550                    | -0.5234 | 0.550                      | -0.4570 |

| Lower surface |         |       |         |       |         |
|---------------|---------|-------|---------|-------|---------|
| 0.005         | 0.2617  | 0.005 | 0.2593  | 0.005 | 0.1736  |
| 0.010         | -0.0058 | 0.010 | -0.0720 | 0.010 | -0.2245 |

Fight 22 Test point 62

Sweep, deg = 24.9 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 386.4 Rnpu = 3153000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9009  | 0.000                    | 0.9292  | 0.000                      | 0.9242  |
| 0.005                       | 0.1844  | 0.005                    | 0.2274  | 0.005                      | 0.4743  |
| 0.010                       | -0.0754 | 0.010                    | -0.0260 | 0.010                      | 0.2036  |
| 0.020                       | -0.3160 | 0.020                    | -0.2777 | 0.020                      | -0.1327 |
| 0.040                       | -0.4982 | 0.040                    | -0.4445 | 0.040                      | -0.3091 |
| 0.060                       | -0.5576 | 0.060                    | -0.4989 | 0.060                      | -0.3969 |
| 0.080                       | -0.5923 | 0.080                    | -0.5367 | 0.080                      | -0.3949 |
| 0.100                       | -0.6179 | 0.100                    | -0.5570 | 0.100                      | -0.4561 |
| 0.125                       | -0.5810 | 0.125                    | -0.5638 | 0.125                      | -0.4700 |
| 0.150                       | -0.6644 | 0.150                    | -0.5947 | 0.150                      | -0.5030 |
| 0.175                       | -0.6507 | 0.175                    | -0.6543 | 0.175                      | -0.5427 |
| 0.200                       | -0.7181 | 0.200                    | -0.6977 | 0.200                      | -0.5447 |
| 0.250                       | -0.7576 | 0.250                    | -0.7563 | 0.250                      | -0.6079 |
| 0.300                       | -0.7297 | 0.300                    | -0.7524 | 0.300                      | -0.6262 |
| 0.350                       | -0.6808 | 0.350                    | -0.6720 | 0.350                      | -0.6127 |
| 0.400                       | -0.6019 | 0.400                    | -0.6531 | 0.400                      | -0.5773 |
| 0.450                       | -0.5298 | 0.450                    | -0.5852 | 0.450                      | -0.5455 |
| 0.500                       | -0.5000 | 0.500                    | -0.5560 | 0.500                      | -0.4902 |
| 0.550                       | -0.4346 | 0.550                    | -0.5370 | 0.550                      | -0.4655 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3419 | 0.005 | 0.3421 | 0.005 | 0.2637  |
| 0.010 | 0.0943 | 0.010 | 0.0291 | 0.010 | -0.1121 |

Fight 22 Test point 63

Sweep, deg = 24.9 Mach = 0.75 hp, ft = 20200. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 379.2 Rnpu = 3116000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8799  | 0.000                    | 0.9096  | 0.000                      | 0.9107  |
| 0.005                       | -0.0251 | 0.005                    | 0.0263  | 0.005                      | 0.3103  |
| 0.010                       | -0.2889 | 0.010                    | -0.2382 | 0.010                      | 0.0084  |
| 0.020                       | -0.5393 | 0.020                    | -0.4860 | 0.020                      | -0.3457 |
| 0.040                       | -0.7245 | 0.040                    | -0.6465 | 0.040                      | -0.5016 |
| 0.060                       | -0.7230 | 0.060                    | -0.6851 | 0.060                      | -0.5940 |
| 0.080                       | -0.8265 | 0.080                    | -0.6931 | 0.080                      | -0.6187 |
| 0.100                       | -0.7689 | 0.100                    | -0.7082 | 0.100                      | -0.6082 |
| 0.125                       | -0.6892 | 0.125                    | -0.7174 | 0.125                      | -0.6016 |
| 0.150                       | -0.7879 | 0.150                    | -0.7235 | 0.150                      | -0.6342 |
| 0.175                       | -0.7866 | 0.175                    | -0.7102 | 0.175                      | -0.6650 |
| 0.200                       | -0.8194 | 0.200                    | -0.7741 | 0.200                      | -0.6533 |
| 0.250                       | -0.8665 | 0.250                    | -0.8881 | 0.250                      | -0.7127 |
| 0.300                       | -0.8421 | 0.300                    | -0.9201 | 0.300                      | -0.7316 |
| 0.350                       | -0.7761 | 0.350                    | -0.8956 | 0.350                      | -0.6674 |
| 0.400                       | -0.6339 | 0.400                    | -0.6213 | 0.400                      | -0.6175 |
| 0.450                       | -0.5496 | 0.450                    | -0.5980 | 0.450                      | -0.5791 |
| 0.500                       | -0.5178 | 0.500                    | -0.5709 | 0.500                      | -0.5146 |
| 0.550                       | -0.4513 | 0.550                    | -0.5501 | 0.550                      | -0.4827 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4951 | 0.005 | 0.5008 | 0.005 | 0.4389 |
| 0.010 | 0.2624 | 0.010 | 0.2222 | 0.010 | 0.1026 |



Fight 22 Test point 64

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 384.5 Rnpu = 3145000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9697  | 0.000                    | 1.0044  | 0.000                      | 0.9886  |
| 0.005                       | 0.3268  | 0.005                    | 0.3857  | 0.005                      | 0.6159  |
| 0.010                       | 0.0574  | 0.010                    | 0.1279  | 0.010                      | 0.3504  |
| 0.020                       | -0.2047 | 0.020                    | -0.1411 | 0.020                      | 0.0035  |
| 0.040                       | -0.4165 | 0.040                    | -0.3361 | 0.040                      | -0.1974 |
| 0.060                       | -0.4924 | 0.060                    | -0.4108 | 0.060                      | -0.3164 |
| 0.080                       | -0.5411 | 0.080                    | -0.4610 | 0.080                      | -0.3822 |
| 0.100                       | -0.5723 | 0.100                    | -0.4949 | 0.100                      | -0.3967 |
| 0.125                       | -0.5458 | 0.125                    | -0.5159 | 0.125                      | -0.4219 |
| 0.150                       | -0.6329 | 0.150                    | -0.5620 | 0.150                      | -0.4612 |
| 0.175                       | -0.6334 | 0.175                    | -0.6160 | 0.175                      | -0.5010 |
| 0.200                       | -0.7158 | 0.200                    | -0.6516 | 0.200                      | -0.5104 |
| 0.250                       | -0.7889 | 0.250                    | -0.7537 | 0.250                      | -0.5888 |
| 0.300                       | -0.7413 | 0.300                    | -0.7854 | 0.300                      | -0.6156 |
| 0.350                       | -0.7321 | 0.350                    | -0.7833 | 0.350                      | -0.6327 |
| 0.400                       | -0.6176 | 0.400                    | -0.6598 | 0.400                      | -0.5979 |
| 0.450                       | -0.5392 | 0.450                    | -0.5936 | 0.450                      | -0.5686 |
| 0.500                       | -0.5107 | 0.500                    | -0.5724 | 0.500                      | -0.5084 |
| 0.550                       | -0.4492 | 0.550                    | -0.5567 | 0.550                      | -0.4784 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2759  | 0.005 | 0.2670  | 0.005 | 0.1790  |
| 0.010 | -0.0089 | 0.010 | -0.0900 | 0.010 | -0.2528 |

Fight 22 Test point 65

Sweep, deg = 20.0 Mach = 0.76 hp, ft = 20100. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 386.2 Rnpu = 3148000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9718  | 0.000                    | 1.0017  | 0.000                      | 0.9955  |
| 0.005                       | 0.2210  | 0.005                    | 0.2797  | 0.005                      | 0.5298  |
| 0.010                       | -0.0537 | 0.010                    | 0.0119  | 0.010                      | 0.2445  |
| 0.020                       | -0.3181 | 0.020                    | -0.2591 | 0.020                      | -0.1136 |
| 0.040                       | -0.5260 | 0.040                    | -0.4462 | 0.040                      | -0.3055 |
| 0.060                       | -0.5955 | 0.060                    | -0.5130 | 0.060                      | -0.4171 |
| 0.080                       | -0.6309 | 0.080                    | -0.5573 | 0.080                      | -0.4632 |
| 0.100                       | -0.6496 | 0.100                    | -0.5831 | 0.100                      | -0.4875 |
| 0.125                       | -0.6183 | 0.125                    | -0.5933 | 0.125                      | -0.5051 |
| 0.150                       | -0.7246 | 0.150                    | -0.6309 | 0.150                      | -0.5469 |
| 0.175                       | -0.7202 | 0.175                    | -0.6804 | 0.175                      | -0.5845 |
| 0.200                       | -0.7792 | 0.200                    | -0.7229 | 0.200                      | -0.5905 |
| 0.250                       | -0.8646 | 0.250                    | -0.8359 | 0.250                      | -0.6658 |
| 0.300                       | -0.9088 | 0.300                    | -0.8676 | 0.300                      | -0.7332 |
| 0.350                       | -0.7235 | 0.350                    | -0.9003 | 0.350                      | -0.7187 |
| 0.400                       | -0.7769 | 0.400                    | -0.9385 | 0.400                      | -0.6549 |
| 0.450                       | -0.5422 | 0.450                    | -0.5380 | 0.450                      | -0.5833 |
| 0.500                       | -0.5205 | 0.500                    | -0.5553 | 0.500                      | -0.5301 |
| 0.550                       | -0.4601 | 0.550                    | -0.5570 | 0.550                      | -0.5222 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3811 | 0.005 | 0.3725 | 0.005 | 0.2951  |
| 0.010 | 0.1108 | 0.010 | 0.0384 | 0.010 | -0.1072 |

Fight 22 Test point 66

Sweep, deg = 20.0 Mach = 0.76 hp, ft = 20200. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 385.7 Rnpu = 3143000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9593  | 0.000                    | 0.9888  | 0.000                      | 0.9865  |
| 0.005                       | 0.0466  | 0.005                    | 0.0995  | 0.005                      | 0.3802  |
| 0.010                       | -0.2362 | 0.010                    | -0.1784 | 0.010                      | 0.0696  |
| 0.020                       | -0.5014 | 0.020                    | -0.4443 | 0.020                      | -0.3086 |
| 0.040                       | -0.7368 | 0.040                    | -0.6307 | 0.040                      | -0.4832 |
| 0.060                       | -0.7682 | 0.060                    | -0.6704 | 0.060                      | -0.5859 |
| 0.080                       | -0.7953 | 0.080                    | -0.7650 | 0.080                      | -0.6459 |
| 0.100                       | -0.8086 | 0.100                    | -0.7290 | 0.100                      | -0.6324 |
| 0.125                       | -0.7331 | 0.125                    | -0.7405 | 0.125                      | -0.6190 |
| 0.150                       | -0.8322 | 0.150                    | -0.7408 | 0.150                      | -0.6941 |
| 0.175                       | -0.8427 | 0.175                    | -0.8081 | 0.175                      | -0.7540 |
| 0.200                       | -0.9136 | 0.200                    | -0.8291 | 0.200                      | -0.6849 |
| 0.250                       | -0.9921 | 0.250                    | -0.9018 | 0.250                      | -0.7653 |
| 0.300                       | -1.0239 | 0.300                    | -0.9722 | 0.300                      | -0.8409 |
| 0.350                       | -1.0048 | 0.350                    | -1.0267 | 0.350                      | -0.9039 |
| 0.400                       | -0.9483 | 0.400                    | -1.0738 | 0.400                      | -0.9110 |
| 0.450                       | -0.5316 | 0.450                    | -1.0915 | 0.450                      | -0.7990 |
| 0.500                       | -0.5093 | 0.500                    | -0.4935 | 0.500                      | -0.4927 |
| 0.550                       | -0.4558 | 0.550                    | -0.4808 | 0.550                      | -0.4886 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5267 | 0.005 | 0.5267 | 0.005 | 0.4627 |
| 0.010 | 0.2796 | 0.010 | 0.2266 | 0.010 | 0.1012 |

Figure 22 Test point 67

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = -0.3  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 436.0 Rnpu = 3374000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9752  | 0.000                    | 1.0082  | 0.000                      | 0.9915  |
| 0.005                       | 0.4474  | 0.005                    | 0.5007  | 0.005                      | 0.6922  |
| 0.010                       | 0.1893  | 0.010                    | 0.2570  | 0.010                      | 0.4401  |
| 0.020                       | -0.0678 | 0.020                    | -0.0109 | 0.020                      | 0.1134  |
| 0.040                       | -0.2940 | 0.040                    | -0.2129 | 0.040                      | -0.0981 |
| 0.060                       | -0.3811 | 0.060                    | -0.2990 | 0.060                      | -0.2252 |
| 0.080                       | -0.4384 | 0.080                    | -0.3631 | 0.080                      | -0.2810 |
| 0.100                       | -0.4758 | 0.100                    | -0.4009 | 0.100                      | -0.3151 |
| 0.125                       | -0.4769 | 0.125                    | -0.4225 | 0.125                      | -0.3497 |
| 0.150                       | -0.5793 | 0.150                    | -0.4623 | 0.150                      | -0.4079 |
| 0.175                       | -0.5902 | 0.175                    | -0.5200 | 0.175                      | -0.4555 |
| 0.200                       | -0.6546 | 0.200                    | -0.5717 | 0.200                      | -0.4712 |
| 0.250                       | -0.7535 | 0.250                    | -0.7224 | 0.250                      | -0.5931 |
| 0.300                       | -0.8268 | 0.300                    | -0.7708 | 0.300                      | -0.6331 |
| 0.350                       | -0.8464 | 0.350                    | -0.8186 | 0.350                      | -0.7263 |
| 0.400                       | -0.8657 | 0.400                    | -0.8917 | 0.400                      | -0.7756 |
| 0.450                       | -0.8694 | 0.450                    | -0.9238 | 0.450                      | -0.8271 |
| 0.500                       | -0.9188 | 0.500                    | -0.9644 | 0.500                      | -0.8527 |
| 0.550                       | -0.4080 | 0.550                    | -0.9880 | 0.550                      | -0.8806 |

| Lower surface |         |       |         |       |         |
|---------------|---------|-------|---------|-------|---------|
| 0.005         | 0.2243  | 0.005 | 0.2129  | 0.005 | 0.1447  |
| 0.010         | -0.0649 | 0.010 | -0.1516 | 0.010 | -0.2905 |

Flight 22 Test point 68

Sweep, deg = 20.0 Mach = 0.81 hp, ft = 20200. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 439.6 Rnpu = 3382000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9941  | 0.000                    | 1.0234  | 0.000                      | 1.0073  |
| 0.005                       | 0.3395  | 0.005                    | 0.4001  | 0.005                      | 0.6164  |
| 0.010                       | 0.0707  | 0.010                    | 0.1458  | 0.010                      | 0.3555  |
| 0.020                       | -0.1859 | 0.020                    | -0.1223 | 0.020                      | 0.0087  |
| 0.040                       | -0.4059 | 0.040                    | -0.3214 | 0.040                      | -0.1957 |
| 0.060                       | -0.4777 | 0.060                    | -0.4062 | 0.060                      | -0.3224 |
| 0.080                       | -0.5826 | 0.080                    | -0.4577 | 0.080                      | -0.3788 |
| 0.100                       | -0.5692 | 0.100                    | -0.4868 | 0.100                      | -0.4041 |
| 0.125                       | -0.5525 | 0.125                    | -0.5442 | 0.125                      | -0.4240 |
| 0.150                       | -0.6462 | 0.150                    | -0.5402 | 0.150                      | -0.4991 |
| 0.175                       | -0.6689 | 0.175                    | -0.6219 | 0.175                      | -0.5424 |
| 0.200                       | -0.7381 | 0.200                    | -0.6406 | 0.200                      | -0.5105 |
| 0.250                       | -0.8312 | 0.250                    | -0.7356 | 0.250                      | -0.6340 |
| 0.300                       | -0.9014 | 0.300                    | -0.8124 | 0.300                      | -0.7079 |
| 0.350                       | -0.9127 | 0.350                    | -0.8776 | 0.350                      | -0.7882 |
| 0.400                       | -0.9119 | 0.400                    | -0.9475 | 0.400                      | -0.8248 |
| 0.450                       | -0.9333 | 0.450                    | -0.9856 | 0.450                      | -0.8990 |
| 0.500                       | -1.0453 | 0.500                    | -1.0368 | 0.500                      | -0.9226 |
| 0.550                       | -0.5589 | 0.550                    | -0.6306 | 0.550                      | -0.8897 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3595 | 0.005 | 0.3382  | 0.005 | 0.2670  |
| 0.010 | 0.0822 | 0.010 | -0.0007 | 0.010 | -0.1454 |

Flight 22 Test point 69

Sweep, deg = 20.0 Mach = 0.81 hp, ft = 20200. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 438.5 Rnpu = 3378000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9900  | 0.000                    | 1.0189  | 0.000                      | 1.0088  |
| 0.005                       | 0.1924  | 0.005                    | 0.2569  | 0.005                      | 0.5012  |
| 0.010                       | -0.0799 | 0.010                    | -0.0075 | 0.010                      | 0.2153  |
| 0.020                       | -0.3382 | 0.020                    | -0.2729 | 0.020                      | -0.1493 |
| 0.040                       | -0.5869 | 0.040                    | -0.4696 | 0.040                      | -0.3377 |
| 0.060                       | -0.6482 | 0.060                    | -0.5212 | 0.060                      | -0.4501 |
| 0.080                       | -0.6363 | 0.080                    | -0.6203 | 0.080                      | -0.4935 |
| 0.100                       | -0.7109 | 0.100                    | -0.6042 | 0.100                      | -0.5611 |
| 0.125                       | -0.6606 | 0.125                    | -0.6230 | 0.125                      | -0.5165 |
| 0.150                       | -0.7604 | 0.150                    | -0.6555 | 0.150                      | -0.5501 |
| 0.175                       | -0.7568 | 0.175                    | -0.7064 | 0.175                      | -0.6637 |
| 0.200                       | -0.8299 | 0.200                    | -0.7303 | 0.200                      | -0.6489 |
| 0.250                       | -0.9197 | 0.250                    | -0.8283 | 0.250                      | -0.7265 |
| 0.300                       | -0.9968 | 0.300                    | -0.8968 | 0.300                      | -0.7807 |
| 0.350                       | -0.9985 | 0.350                    | -0.9459 | 0.350                      | -0.8479 |
| 0.400                       | -1.0171 | 0.400                    | -1.0234 | 0.400                      | -0.9053 |
| 0.450                       | -1.0350 | 0.450                    | -1.0609 | 0.450                      | -0.9637 |
| 0.500                       | -0.9392 | 0.500                    | -0.9412 | 0.500                      | -0.9947 |
| 0.550                       | -0.4528 | 0.550                    | -0.4480 | 0.550                      | -0.6488 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4906 | 0.005 | 0.4739 | 0.005 | 0.4093 |
| 0.010 | 0.2333 | 0.010 | 0.1623 | 0.010 | 0.0349 |

Fight 22 Test point 70

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = -0.3  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 432.7 Rrho = 3359000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8891  | 0.000                    | 0.9204  | 0.000                      | 0.9068  |
| 0.005                       | 0.3989  | 0.005                    | 0.4401  | 0.005                      | 0.6263  |
| 0.010                       | 0.1562  | 0.010                    | 0.2100  | 0.010                      | 0.3940  |
| 0.020                       | -0.0861 | 0.020                    | -0.0444 | 0.020                      | 0.0773  |
| 0.040                       | -0.2817 | 0.040                    | -0.2231 | 0.040                      | -0.1097 |
| 0.060                       | -0.3663 | 0.060                    | -0.3043 | 0.060                      | -0.2294 |
| 0.080                       | -0.4245 | 0.080                    | -0.3542 | 0.080                      | -0.2840 |
| 0.100                       | -0.4692 | 0.100                    | -0.3961 | 0.100                      | -0.3234 |
| 0.125                       | -0.4676 | 0.125                    | -0.4198 | 0.125                      | -0.3599 |
| 0.150                       | -0.5415 | 0.150                    | -0.4689 | 0.150                      | -0.4071 |
| 0.175                       | -0.5371 | 0.175                    | -0.5339 | 0.175                      | -0.4517 |
| 0.200                       | -0.6298 | 0.200                    | -0.5862 | 0.200                      | -0.4714 |
| 0.250                       | -0.7034 | 0.250                    | -0.6746 | 0.250                      | -0.5536 |
| 0.300                       | -0.6938 | 0.300                    | -0.7218 | 0.300                      | -0.6313 |
| 0.350                       | -0.7100 | 0.350                    | -0.7649 | 0.350                      | -0.6671 |
| 0.400                       | -0.7267 | 0.400                    | -0.8208 | 0.400                      | -0.7409 |
| 0.450                       | -0.7146 | 0.450                    | -0.8120 | 0.450                      | -0.7694 |
| 0.500                       | -0.4537 | 0.500                    | -0.4978 | 0.500                      | -0.4051 |
| 0.550                       | -0.4073 | 0.550                    | -0.4729 | 0.550                      | -0.4212 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.1613  | 0.005 | 0.1626  | 0.005 | 0.0877  |
| 0.010 | -0.1129 | 0.010 | -0.1831 | 0.010 | -0.3332 |

Fight 22 Test point 71

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 20200. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 434.5 Rnpu = 3357000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9046  | 0.000                    | 0.9314  | 0.000                      | 0.9212  |
| 0.005                       | 0.1870  | 0.005                    | 0.2277  | 0.005                      | 0.4559  |
| 0.010                       | -0.0703 | 0.010                    | -0.0211 | 0.010                      | 0.1837  |
| 0.020                       | -0.3126 | 0.020                    | -0.2694 | 0.020                      | -0.1546 |
| 0.040                       | -0.5091 | 0.040                    | -0.4488 | 0.040                      | -0.3288 |
| 0.060                       | -0.5381 | 0.060                    | -0.5167 | 0.060                      | -0.4179 |
| 0.080                       | -0.6623 | 0.080                    | -0.6061 | 0.080                      | -0.4789 |
| 0.100                       | -0.6373 | 0.100                    | -0.5819 | 0.100                      | -0.5433 |
| 0.125                       | -0.6016 | 0.125                    | -0.6186 | 0.125                      | -0.4880 |
| 0.150                       | -0.6914 | 0.150                    | -0.6001 | 0.150                      | -0.5846 |
| 0.175                       | -0.7100 | 0.175                    | -0.6674 | 0.175                      | -0.6384 |
| 0.200                       | -0.7715 | 0.200                    | -0.6928 | 0.200                      | -0.6095 |
| 0.250                       | -0.8557 | 0.250                    | -0.7903 | 0.250                      | -0.6834 |
| 0.300                       | -0.9070 | 0.300                    | -0.8666 | 0.300                      | -0.7566 |
| 0.350                       | -0.9150 | 0.350                    | -0.9237 | 0.350                      | -0.8325 |
| 0.400                       | -0.9288 | 0.400                    | -0.9895 | 0.400                      | -0.8745 |
| 0.450                       | -0.9122 | 0.450                    | -1.0056 | 0.450                      | -0.9348 |
| 0.500                       | -0.7952 | 0.500                    | -1.0450 | 0.500                      | -0.9541 |
| 0.550                       | -0.4309 | 0.550                    | -0.5933 | 0.550                      | -0.6762 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3882 | 0.005 | 0.3872 | 0.005 | 0.3274  |
| 0.010 | 0.1394 | 0.010 | 0.0902 | 0.010 | -0.0281 |



Flight 22 Test point 72

Sweep, deg = 30.8 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 436.7 RnpU = 3375000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 269<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7982  | 0.000                    | 0.8299  | 0.000                      | 0.8217  |
| 0.005                       | 0.2460  | 0.005                    | 0.2808  | 0.005                      | 0.4774  |
| 0.010                       | 0.0188  | 0.010                    | 0.0608  | 0.010                      | 0.2457  |
| 0.020                       | -0.1976 | 0.020                    | -0.1701 | 0.020                      | -0.0552 |
| 0.040                       | -0.3693 | 0.040                    | -0.3147 | 0.040                      | -0.2071 |
| 0.060                       | -0.4300 | 0.060                    | -0.3831 | 0.060                      | -0.3156 |
| 0.080                       | -0.4706 | 0.080                    | -0.4305 | 0.080                      | -0.3617 |
| 0.100                       | -0.5087 | 0.100                    | -0.4561 | 0.100                      | -0.3866 |
| 0.125                       | -0.4836 | 0.125                    | -0.4736 | 0.125                      | -0.4203 |
| 0.150                       | -0.5411 | 0.150                    | -0.5085 | 0.150                      | -0.4474 |
| 0.175                       | -0.5526 | 0.175                    | -0.5671 | 0.175                      | -0.4819 |
| 0.200                       | -0.6251 | 0.200                    | -0.6243 | 0.200                      | -0.4995 |
| 0.250                       | -0.6645 | 0.250                    | -0.6750 | 0.250                      | -0.5481 |
| 0.300                       | -0.6768 | 0.300                    | -0.7070 | 0.300                      | -0.5975 |
| 0.350                       | -0.6618 | 0.350                    | -0.7280 | 0.350                      | -0.6655 |
| 0.400                       | -0.6598 | 0.400                    | -0.7308 | 0.400                      | -0.4790 |
| 0.450                       | -0.5689 | 0.450                    | -0.4916 | 0.450                      | -0.5033 |
| 0.500                       | -0.4490 | 0.500                    | -0.5460 | 0.500                      | -0.4396 |
| 0.550                       | -0.4064 | 0.550                    | -0.4828 | 0.550                      | -0.4222 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2093  | 0.005 | 0.2159  | 0.005 | 0.1538  |
| 0.010 | -0.0299 | 0.010 | -0.0834 | 0.010 | -0.2056 |

Flight 23 Test point 1

Sweep, deg = 20.4 Mach = 0.70 hp, ft = 9900. Angle of attack, deg = -0.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 501.2 Rrho = 4176000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9582  | 0.000                    | 0.9912  | 0.000                      | 0.9695  |
| 0.005                       | 0.3109  | 0.005                    | 0.3849  | 0.005                      | 0.6250  |
| 0.010                       | 0.0417  | 0.010                    | 0.1242  | 0.010                      | 0.3639  |
| 0.020                       | -0.2122 | 0.020                    | -0.1402 | 0.020                      | 0.0193  |
| 0.040                       | -0.3936 | 0.040                    | -0.2996 | 0.040                      | -0.1733 |
| 0.060                       | -0.4601 | 0.060                    | -0.3702 | 0.060                      | -0.2803 |
| 0.080                       | -0.5029 | 0.080                    | -0.4176 | 0.080                      | -0.3217 |
| 0.100                       | -0.5319 | 0.100                    | -0.4455 | 0.100                      | -0.3522 |
| 0.125                       | -0.4987 | 0.125                    | -0.4636 | 0.125                      | -0.3579 |
| 0.150                       | -0.5770 | 0.150                    | -0.5026 | 0.150                      | -0.3973 |
| 0.175                       | -0.5773 | 0.175                    | -0.5400 | 0.175                      | -0.4290 |
| 0.200                       | -0.6304 | 0.200                    | -0.5685 | 0.200                      | -0.4425 |
| 0.250                       | -0.6451 | 0.250                    | -0.6197 | 0.250                      | -0.5001 |
| 0.300                       | -0.6406 | 0.300                    | -0.6217 | 0.300                      | -0.5143 |
| 0.350                       | -0.5930 | 0.350                    | -0.6003 | 0.350                      | -0.5278 |
| 0.400                       | -0.5465 | 0.400                    | -0.5860 | 0.400                      | -0.5175 |
| 0.450                       | -0.4929 | 0.450                    | -0.5396 | 0.450                      | -0.4998 |
| 0.500                       | -0.4756 | 0.500                    | -0.5215 | 0.500                      | -0.4656 |
| 0.550                       | -0.4253 | 0.550                    | -0.5184 | 0.550                      | -0.4602 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2396  | 0.005 | 0.2132  | 0.005 | 0.0925  |
| 0.010 | -0.0468 | 0.010 | -0.1410 | 0.010 | -0.3481 |

Flight 23 Test point 2

Sweep, deg = 20.1 Mach = 0.70 hp, ft = 10100. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 492.6 Rnpu = 4128000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9647  | 0.000                    | 0.9978  | 0.000                      | 0.9818  |
| 0.005                       | 0.2074  | 0.005                    | 0.2916  | 0.005                      | 0.5595  |
| 0.010                       | -0.0670 | 0.010                    | 0.0198  | 0.010                      | 0.2838  |
| 0.020                       | -0.3240 | 0.020                    | -0.2409 | 0.020                      | -0.0684 |
| 0.040                       | -0.4927 | 0.040                    | -0.3870 | 0.040                      | -0.2485 |
| 0.060                       | -0.5468 | 0.060                    | -0.4492 | 0.060                      | -0.3470 |
| 0.080                       | -0.5797 | 0.080                    | -0.4949 | 0.080                      | -0.3894 |
| 0.100                       | -0.6032 | 0.100                    | -0.5096 | 0.100                      | -0.4153 |
| 0.125                       | -0.5542 | 0.125                    | -0.5249 | 0.125                      | -0.4140 |
| 0.150                       | -0.6346 | 0.150                    | -0.5597 | 0.150                      | -0.4444 |
| 0.175                       | -0.6257 | 0.175                    | -0.5942 | 0.175                      | -0.4707 |
| 0.200                       | -0.6800 | 0.200                    | -0.6138 | 0.200                      | -0.4837 |
| 0.250                       | -0.6850 | 0.250                    | -0.6601 | 0.250                      | -0.5342 |
| 0.300                       | -0.6730 | 0.300                    | -0.6580 | 0.300                      | -0.5434 |
| 0.350                       | -0.6208 | 0.350                    | -0.6295 | 0.350                      | -0.5538 |
| 0.400                       | -0.5666 | 0.400                    | -0.6098 | 0.400                      | -0.5361 |
| 0.450                       | -0.5117 | 0.450                    | -0.5581 | 0.450                      | -0.5139 |
| 0.500                       | -0.4901 | 0.500                    | -0.5356 | 0.500                      | -0.4757 |
| 0.550                       | -0.4334 | 0.550                    | -0.5280 | 0.550                      | -0.4684 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3421 | 0.005 | 0.3140  | 0.005 | 0.1959  |
| 0.010 | 0.0675 | 0.010 | -0.0222 | 0.010 | -0.2182 |

Flight 23 Test point 3

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 10100. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 493.1 Rnpu = 4129000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9406  | 0.000                    | 0.9762  | 0.000                      | 0.9761  |
| 0.005                       | -0.0482 | 0.005                    | 0.0398  | 0.005                      | 0.3594  |
| 0.010                       | -0.3294 | 0.010                    | -0.2487 | 0.010                      | 0.0442  |
| 0.020                       | -0.5882 | 0.020                    | -0.5020 | 0.020                      | -0.3284 |
| 0.040                       | -0.7481 | 0.040                    | -0.6198 | 0.040                      | -0.4767 |
| 0.060                       | -0.7645 | 0.060                    | -0.6595 | 0.060                      | -0.5501 |
| 0.080                       | -0.7709 | 0.080                    | -0.6861 | 0.080                      | -0.5729 |
| 0.100                       | -0.7822 | 0.100                    | -0.6844 | 0.100                      | -0.5873 |
| 0.125                       | -0.6882 | 0.125                    | -0.6808 | 0.125                      | -0.5606 |
| 0.150                       | -0.7779 | 0.150                    | -0.7051 | 0.150                      | -0.5771 |
| 0.175                       | -0.7459 | 0.175                    | -0.7275 | 0.175                      | -0.6008 |
| 0.200                       | -0.8095 | 0.200                    | -0.7499 | 0.200                      | -0.6027 |
| 0.250                       | -0.7944 | 0.250                    | -0.7827 | 0.250                      | -0.6429 |
| 0.300                       | -0.7636 | 0.300                    | -0.7587 | 0.300                      | -0.6349 |
| 0.350                       | -0.6884 | 0.350                    | -0.7098 | 0.350                      | -0.6294 |
| 0.400                       | -0.6220 | 0.400                    | -0.6753 | 0.400                      | -0.5977 |
| 0.450                       | -0.5515 | 0.450                    | -0.6108 | 0.450                      | -0.5641 |
| 0.500                       | -0.5241 | 0.500                    | -0.5731 | 0.500                      | -0.5163 |
| 0.550                       | -0.4597 | 0.550                    | -0.5542 | 0.550                      | -0.4953 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5353 | 0.005 | 0.5244 | 0.005 | 0.4317 |
| 0.010 | 0.2845 | 0.010 | 0.2249 | 0.010 | 0.0715 |

Flight 23 Test point 4

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 10200. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 499.9 Rnpu = 4156000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9412  | 0.000                    | 0.9799  | 0.000                      | 0.9793  |
| 0.005                       | -0.0507 | 0.005                    | 0.0432  | 0.005                      | 0.3637  |
| 0.010                       | -0.3348 | 0.010                    | -0.2469 | 0.010                      | 0.0493  |
| 0.020                       | -0.5966 | 0.020                    | -0.5058 | 0.020                      | -0.3282 |
| 0.040                       | -0.7609 | 0.040                    | -0.6249 | 0.040                      | -0.4778 |
| 0.060                       | -0.7798 | 0.060                    | -0.6732 | 0.060                      | -0.5514 |
| 0.080                       | -0.7821 | 0.080                    | -0.7029 | 0.080                      | -0.5800 |
| 0.100                       | -0.7817 | 0.100                    | -0.6975 | 0.100                      | -0.5974 |
| 0.125                       | -0.7016 | 0.125                    | -0.6935 | 0.125                      | -0.5692 |
| 0.150                       | -0.7944 | 0.150                    | -0.7162 | 0.150                      | -0.5898 |
| 0.175                       | -0.7594 | 0.175                    | -0.7428 | 0.175                      | -0.6110 |
| 0.200                       | -0.8192 | 0.200                    | -0.7713 | 0.200                      | -0.6121 |
| 0.250                       | -0.8093 | 0.250                    | -0.8106 | 0.250                      | -0.6524 |
| 0.300                       | -0.7828 | 0.300                    | -0.7810 | 0.300                      | -0.6529 |
| 0.350                       | -0.7045 | 0.350                    | -0.7244 | 0.350                      | -0.6431 |
| 0.400                       | -0.6338 | 0.400                    | -0.6838 | 0.400                      | -0.6092 |
| 0.450                       | -0.5592 | 0.450                    | -0.6178 | 0.450                      | -0.5734 |
| 0.500                       | -0.5279 | 0.500                    | -0.5802 | 0.500                      | -0.5207 |
| 0.550                       | -0.4623 | 0.550                    | -0.5628 | 0.550                      | -0.4978 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5436 | 0.005 | 0.5281 | 0.005 | 0.4320 |
| 0.010 | 0.2934 | 0.010 | 0.2302 | 0.010 | 0.0706 |

Fight 23 Test point 5

Sweep, deg = 25.4 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 499.6 R<sub>npu</sub> = 4166000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8841  | 0.000                    | 0.9161  | 0.000                      | 0.8984  |
| 0.005                       | 0.2441  | 0.005                    | 0.3073  | 0.005                      | 0.5436  |
| 0.010                       | -0.0094 | 0.010                    | 0.0676  | 0.010                      | 0.2957  |
| 0.020                       | -0.2467 | 0.020                    | -0.1819 | 0.020                      | -0.0150 |
| 0.040                       | -0.4116 | 0.040                    | -0.3281 | 0.040                      | -0.1907 |
| 0.060                       | -0.4640 | 0.060                    | -0.3909 | 0.060                      | -0.2862 |
| 0.080                       | -0.4951 | 0.080                    | -0.4261 | 0.080                      | -0.3281 |
| 0.100                       | -0.5167 | 0.100                    | -0.4453 | 0.100                      | -0.3549 |
| 0.125                       | -0.4789 | 0.125                    | -0.4565 | 0.125                      | -0.3679 |
| 0.150                       | -0.5489 | 0.150                    | -0.4912 | 0.150                      | -0.3956 |
| 0.175                       | -0.5451 | 0.175                    | -0.5216 | 0.175                      | -0.4202 |
| 0.200                       | -0.5909 | 0.200                    | -0.5402 | 0.200                      | -0.4308 |
| 0.250                       | -0.6009 | 0.250                    | -0.5798 | 0.250                      | -0.4783 |
| 0.300                       | -0.5958 | 0.300                    | -0.5769 | 0.300                      | -0.4845 |
| 0.350                       | -0.5531 | 0.350                    | -0.5556 | 0.350                      | -0.4954 |
| 0.400                       | -0.5121 | 0.400                    | -0.5447 | 0.400                      | -0.4828 |
| 0.450                       | -0.4629 | 0.450                    | -0.5043 | 0.450                      | -0.4640 |
| 0.500                       | -0.4484 | 0.500                    | -0.4864 | 0.500                      | -0.4353 |
| 0.550                       | -0.4016 | 0.550                    | -0.4864 | 0.550                      | -0.4404 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2498  | 0.005 | 0.2311  | 0.005 | 0.1105  |
| 0.010 | -0.0101 | 0.010 | -0.0879 | 0.010 | -0.2770 |

Flight 23 Test point 6

Sweep, deg = 25.4 Mach = 0.70 hp, ft = 10100. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 493.3 Rnpu = 4138000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8773  | 0.000                    | 0.9128  | 0.000                      | 0.9003  |
| 0.005                       | 0.1556  | 0.005                    | 0.2215  | 0.005                      | 0.4747  |
| 0.010                       | -0.0972 | 0.010                    | -0.0301 | 0.010                      | 0.2100  |
| 0.020                       | -0.3198 | 0.020                    | -0.2640 | 0.020                      | -0.1017 |
| 0.040                       | -0.4741 | 0.040                    | -0.3960 | 0.040                      | -0.2569 |
| 0.060                       | -0.5187 | 0.060                    | -0.4503 | 0.060                      | -0.3455 |
| 0.080                       | -0.5438 | 0.080                    | -0.4794 | 0.080                      | -0.3801 |
| 0.100                       | -0.5625 | 0.100                    | -0.4909 | 0.100                      | -0.4024 |
| 0.125                       | -0.5118 | 0.125                    | -0.5011 | 0.125                      | -0.4095 |
| 0.150                       | -0.5831 | 0.150                    | -0.5280 | 0.150                      | -0.4326 |
| 0.175                       | -0.5742 | 0.175                    | -0.5556 | 0.175                      | -0.4541 |
| 0.200                       | -0.6197 | 0.200                    | -0.5744 | 0.200                      | -0.4613 |
| 0.250                       | -0.6222 | 0.250                    | -0.6081 | 0.250                      | -0.5053 |
| 0.300                       | -0.6145 | 0.300                    | -0.5985 | 0.300                      | -0.5087 |
| 0.350                       | -0.5697 | 0.350                    | -0.5730 | 0.350                      | -0.5148 |
| 0.400                       | -0.5224 | 0.400                    | -0.5567 | 0.400                      | -0.4963 |
| 0.450                       | -0.4722 | 0.450                    | -0.5128 | 0.450                      | -0.4746 |
| 0.500                       | -0.4561 | 0.500                    | -0.4932 | 0.500                      | -0.4431 |
| 0.550                       | -0.4059 | 0.550                    | -0.4928 | 0.550                      | -0.4441 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3104 | 0.005 | 0.3025  | 0.005 | 0.1991  |
| 0.010 | 0.0562 | 0.010 | -0.0042 | 0.010 | -0.1737 |

Flight 23 Test point 7

Sweep, deg = 25.4 Mach = 0.70 hp, ft = 10100. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 499.3 Rrho = 4170000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8675  | 0.000                    | 0.8976  | 0.000                      | 0.9005  |
| 0.005                       | -0.0467 | 0.005                    | 0.0227  | 0.005                      | 0.3222  |
| 0.010                       | -0.3086 | 0.010                    | -0.2386 | 0.010                      | 0.0338  |
| 0.020                       | -0.5338 | 0.020                    | -0.4747 | 0.020                      | -0.2998 |
| 0.040                       | -0.6695 | 0.040                    | -0.5824 | 0.040                      | -0.4315 |
| 0.060                       | -0.6932 | 0.060                    | -0.6226 | 0.060                      | -0.4974 |
| 0.080                       | -0.7002 | 0.080                    | -0.6359 | 0.080                      | -0.5261 |
| 0.100                       | -0.7061 | 0.100                    | -0.6323 | 0.100                      | -0.5360 |
| 0.125                       | -0.6205 | 0.125                    | -0.6247 | 0.125                      | -0.5273 |
| 0.150                       | -0.6988 | 0.150                    | -0.6438 | 0.150                      | -0.5403 |
| 0.175                       | -0.6725 | 0.175                    | -0.6661 | 0.175                      | -0.5539 |
| 0.200                       | -0.7210 | 0.200                    | -0.6801 | 0.200                      | -0.5536 |
| 0.250                       | -0.7151 | 0.250                    | -0.7048 | 0.250                      | -0.5868 |
| 0.300                       | -0.6937 | 0.300                    | -0.6840 | 0.300                      | -0.5790 |
| 0.350                       | -0.6323 | 0.350                    | -0.6439 | 0.350                      | -0.5757 |
| 0.400                       | -0.5735 | 0.400                    | -0.6137 | 0.400                      | -0.5502 |
| 0.450                       | -0.5096 | 0.450                    | -0.5584 | 0.450                      | -0.5158 |
| 0.500                       | -0.4873 | 0.500                    | -0.5316 | 0.500                      | -0.4722 |
| 0.550                       | -0.4292 | 0.550                    | -0.5191 | 0.550                      | -0.4653 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4739 | 0.005 | 0.4718 | 0.005 | 0.3860 |
| 0.010 | 0.2408 | 0.010 | 0.1951 | 0.010 | 0.0571 |



Fight 23 Test point 8

Sweep, deg = 30.5 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 501.3 Rnpu = 4171000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7946  | 0.000                    | 0.8265  | 0.000                      | 0.8153  |
| 0.005                       | 0.1418  | 0.005                    | 0.2031  | 0.005                      | 0.4317  |
| 0.010                       | -0.0848 | 0.010                    | -0.0197 | 0.010                      | 0.1911  |
| 0.020                       | -0.2898 | 0.020                    | -0.2471 | 0.020                      | -0.0998 |
| 0.040                       | -0.4288 | 0.040                    | -0.3656 | 0.040                      | -0.2363 |
| 0.060                       | -0.4670 | 0.060                    | -0.4080 | 0.060                      | -0.3172 |
| 0.080                       | -0.4859 | 0.080                    | -0.4331 | 0.080                      | -0.3486 |
| 0.100                       | -0.5015 | 0.100                    | -0.4429 | 0.100                      | -0.3651 |
| 0.125                       | -0.4583 | 0.125                    | -0.4503 | 0.125                      | -0.3705 |
| 0.150                       | -0.5229 | 0.150                    | -0.4742 | 0.150                      | -0.3893 |
| 0.175                       | -0.5143 | 0.175                    | -0.4983 | 0.175                      | -0.4087 |
| 0.200                       | -0.5499 | 0.200                    | -0.5120 | 0.200                      | -0.4138 |
| 0.250                       | -0.5568 | 0.250                    | -0.5419 | 0.250                      | -0.4530 |
| 0.300                       | -0.5513 | 0.300                    | -0.5341 | 0.300                      | -0.4544 |
| 0.350                       | -0.5115 | 0.350                    | -0.5107 | 0.350                      | -0.4589 |
| 0.400                       | -0.4731 | 0.400                    | -0.5019 | 0.400                      | -0.4463 |
| 0.450                       | -0.4304 | 0.450                    | -0.4630 | 0.450                      | -0.4297 |
| 0.500                       | -0.4195 | 0.500                    | -0.4504 | 0.500                      | -0.4049 |
| 0.550                       | -0.3756 | 0.550                    | -0.4516 | 0.550                      | -0.4147 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2525 | 0.005 | 0.2516  | 0.005 | 0.1533  |
| 0.010 | 0.0196 | 0.010 | -0.0296 | 0.010 | -0.1821 |

Flight 23 Test point 9

Sweep, deg = 30.5 Mach = 0.70 hp, ft = 9900. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 499.0 Rnpu = 4163000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7947  | 0.000                    | 0.8267  | 0.000                      | 0.8141  |
| 0.005                       | 0.1345  | 0.005                    | 0.2016  | 0.005                      | 0.4328  |
| 0.010                       | -0.0942 | 0.010                    | -0.0224 | 0.010                      | 0.1939  |
| 0.020                       | -0.2973 | 0.020                    | -0.2486 | 0.020                      | -0.0956 |
| 0.040                       | -0.4362 | 0.040                    | -0.3645 | 0.040                      | -0.2366 |
| 0.060                       | -0.4730 | 0.060                    | -0.4111 | 0.060                      | -0.3185 |
| 0.080                       | -0.4926 | 0.080                    | -0.4344 | 0.080                      | -0.3478 |
| 0.100                       | -0.5066 | 0.100                    | -0.4449 | 0.100                      | -0.3658 |
| 0.125                       | -0.4623 | 0.125                    | -0.4534 | 0.125                      | -0.3717 |
| 0.150                       | -0.5237 | 0.150                    | -0.4765 | 0.150                      | -0.3931 |
| 0.175                       | -0.5161 | 0.175                    | -0.4987 | 0.175                      | -0.4113 |
| 0.200                       | -0.5536 | 0.200                    | -0.5140 | 0.200                      | -0.4163 |
| 0.250                       | -0.5607 | 0.250                    | -0.5441 | 0.250                      | -0.4536 |
| 0.300                       | -0.5530 | 0.300                    | -0.5393 | 0.300                      | -0.4561 |
| 0.350                       | -0.5145 | 0.350                    | -0.5152 | 0.350                      | -0.4609 |
| 0.400                       | -0.4752 | 0.400                    | -0.5031 | 0.400                      | -0.4494 |
| 0.450                       | -0.4307 | 0.450                    | -0.4646 | 0.450                      | -0.4314 |
| 0.500                       | -0.4190 | 0.500                    | -0.4485 | 0.500                      | -0.4050 |
| 0.550                       | -0.3783 | 0.550                    | -0.4524 | 0.550                      | -0.4165 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2590 | 0.005 | 0.2511  | 0.005 | 0.1489  |
| 0.010 | 0.0256 | 0.010 | -0.0317 | 0.010 | -0.1912 |

Fight 23 Test point 10

Sweep, deg = 30.5 Mach = 0.70 hp, ft = 10100. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 501.8 Rnpu = 4177000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7718  | 0.000                    | 0.7976  | 0.000                      | 0.8002  |
| 0.005                       | -0.1152 | 0.005                    | -0.0640 | 0.005                      | 0.2214  |
| 0.010                       | -0.3588 | 0.010                    | -0.3023 | 0.010                      | -0.0504 |
| 0.020                       | -0.5615 | 0.020                    | -0.5158 | 0.020                      | -0.3563 |
| 0.040                       | -0.6656 | 0.040                    | -0.5980 | 0.040                      | -0.4672 |
| 0.060                       | -0.6701 | 0.060                    | -0.6198 | 0.060                      | -0.5181 |
| 0.080                       | -0.6672 | 0.080                    | -0.6209 | 0.080                      | -0.5307 |
| 0.100                       | -0.6657 | 0.100                    | -0.6103 | 0.100                      | -0.5310 |
| 0.125                       | -0.5831 | 0.125                    | -0.6000 | 0.125                      | -0.5166 |
| 0.150                       | -0.6512 | 0.150                    | -0.6152 | 0.150                      | -0.5245 |
| 0.175                       | -0.6269 | 0.175                    | -0.6266 | 0.175                      | -0.5346 |
| 0.200                       | -0.6658 | 0.200                    | -0.6338 | 0.200                      | -0.5290 |
| 0.250                       | -0.6572 | 0.250                    | -0.6518 | 0.250                      | -0.5541 |
| 0.300                       | -0.6384 | 0.300                    | -0.6307 | 0.300                      | -0.5419 |
| 0.350                       | -0.5818 | 0.350                    | -0.5912 | 0.350                      | -0.5373 |
| 0.400                       | -0.5309 | 0.400                    | -0.5668 | 0.400                      | -0.5107 |
| 0.450                       | -0.4774 | 0.450                    | -0.5200 | 0.450                      | -0.4812 |
| 0.500                       | -0.4589 | 0.500                    | -0.4911 | 0.500                      | -0.4447 |
| 0.550                       | -0.4067 | 0.550                    | -0.4843 | 0.550                      | -0.4440 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4549 | 0.005 | 0.4611 | 0.005 | 0.3877 |
| 0.010 | 0.2465 | 0.010 | 0.2173 | 0.010 | 0.1050 |

Flight 23 Test point 11

Sweep, deg = 34.9 Mach = 0.71 hp, ft = 9900. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 510.8 Rnpu = 4217000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7228  | 0.000                    | 0.7510  | 0.000                      | 0.7413  |
| 0.005                       | 0.1299  | 0.005                    | 0.1696  | 0.005                      | 0.3909  |
| 0.010                       | -0.0846 | 0.010                    | -0.0319 | 0.010                      | 0.1723  |
| 0.020                       | -0.2747 | 0.020                    | -0.2375 | 0.020                      | -0.0961 |
| 0.040                       | -0.3963 | 0.040                    | -0.3360 | 0.040                      | -0.2281 |
| 0.060                       | -0.4295 | 0.060                    | -0.3738 | 0.060                      | -0.2997 |
| 0.080                       | -0.4464 | 0.080                    | -0.3977 | 0.080                      | -0.3232 |
| 0.100                       | -0.4576 | 0.100                    | -0.4049 | 0.100                      | -0.3373 |
| 0.125                       | -0.4184 | 0.125                    | -0.4121 | 0.125                      | -0.3415 |
| 0.150                       | -0.4705 | 0.150                    | -0.4322 | 0.150                      | -0.3592 |
| 0.175                       | -0.4667 | 0.175                    | -0.4530 | 0.175                      | -0.3772 |
| 0.200                       | -0.4984 | 0.200                    | -0.4652 | 0.200                      | -0.3797 |
| 0.250                       | -0.5027 | 0.250                    | -0.4899 | 0.250                      | -0.4130 |
| 0.300                       | -0.5002 | 0.300                    | -0.4813 | 0.300                      | -0.4136 |
| 0.350                       | -0.4657 | 0.350                    | -0.4637 | 0.350                      | -0.4186 |
| 0.400                       | -0.4318 | 0.400                    | -0.4535 | 0.400                      | -0.4075 |
| 0.450                       | -0.3942 | 0.450                    | -0.4219 | 0.450                      | -0.3915 |
| 0.500                       | -0.3852 | 0.500                    | -0.4090 | 0.500                      | -0.3734 |
| 0.550                       | -0.3455 | 0.550                    | -0.4157 | 0.550                      | -0.3903 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2235 | 0.005 | 0.2252  | 0.005 | 0.1316  |
| 0.010 | 0.0115 | 0.010 | -0.0291 | 0.010 | -0.1645 |

Flight 23 Test point 12

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 9900. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 497.5 Rnpu = 4150000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7307  | 0.000                    | 0.7587  | 0.000                      | 0.7534  |
| 0.005                       | 0.0683  | 0.005                    | 0.1117  | 0.005                      | 0.3463  |
| 0.010                       | -0.1495 | 0.010                    | -0.0986 | 0.010                      | 0.1177  |
| 0.020                       | -0.3405 | 0.020                    | -0.3033 | 0.020                      | -0.1555 |
| 0.040                       | -0.4526 | 0.040                    | -0.3960 | 0.040                      | -0.2812 |
| 0.060                       | -0.4804 | 0.060                    | -0.4272 | 0.060                      | -0.3509 |
| 0.080                       | -0.4913 | 0.080                    | -0.4432 | 0.080                      | -0.3703 |
| 0.100                       | -0.4996 | 0.100                    | -0.4500 | 0.100                      | -0.3802 |
| 0.125                       | -0.4520 | 0.125                    | -0.4506 | 0.125                      | -0.3806 |
| 0.150                       | -0.5101 | 0.150                    | -0.4709 | 0.150                      | -0.3948 |
| 0.175                       | -0.4975 | 0.175                    | -0.4861 | 0.175                      | -0.4095 |
| 0.200                       | -0.5314 | 0.200                    | -0.4961 | 0.200                      | -0.4102 |
| 0.250                       | -0.5313 | 0.250                    | -0.5173 | 0.250                      | -0.4402 |
| 0.300                       | -0.5240 | 0.300                    | -0.5110 | 0.300                      | -0.4348 |
| 0.350                       | -0.4888 | 0.350                    | -0.4853 | 0.350                      | -0.4406 |
| 0.400                       | -0.4511 | 0.400                    | -0.4754 | 0.400                      | -0.4279 |
| 0.450                       | -0.4128 | 0.450                    | -0.4431 | 0.450                      | -0.4083 |
| 0.500                       | -0.4007 | 0.500                    | -0.4262 | 0.500                      | -0.3895 |
| 0.550                       | -0.3588 | 0.550                    | -0.4309 | 0.550                      | -0.4052 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.2778 | 0.005 | 0.2840 | 0.005 | 0.1932  |
| 0.010 | 0.0667 | 0.010 | 0.0302 | 0.010 | -0.0982 |

Fight 23 Test point 13

Sweep, deg = 34.9 Mach = 0.71 hp, ft = 10100. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 507.4 Rnpu = 4191000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.6946  | 0.000                    | 0.7176  | 0.000                      | 0.7268  |
| 0.005                       | -0.1337 | 0.005                    | -0.0922 | 0.005                      | 0.1810  |
| 0.010                       | -0.3541 | 0.010                    | -0.3067 | 0.010                      | -0.0715 |
| 0.020                       | -0.5314 | 0.020                    | -0.4958 | 0.020                      | -0.3467 |
| 0.040                       | -0.6144 | 0.040                    | -0.5584 | 0.040                      | -0.4380 |
| 0.060                       | -0.6148 | 0.060                    | -0.5678 | 0.060                      | -0.4844 |
| 0.080                       | -0.6107 | 0.080                    | -0.5666 | 0.080                      | -0.4934 |
| 0.100                       | -0.6070 | 0.100                    | -0.5586 | 0.100                      | -0.4892 |
| 0.125                       | -0.5318 | 0.125                    | -0.5469 | 0.125                      | -0.4752 |
| 0.150                       | -0.5906 | 0.150                    | -0.5584 | 0.150                      | -0.4778 |
| 0.175                       | -0.5692 | 0.175                    | -0.5683 | 0.175                      | -0.4876 |
| 0.200                       | -0.6012 | 0.200                    | -0.5735 | 0.200                      | -0.4830 |
| 0.250                       | -0.5951 | 0.250                    | -0.5852 | 0.250                      | -0.5019 |
| 0.300                       | -0.5787 | 0.300                    | -0.5698 | 0.300                      | -0.4910 |
| 0.350                       | -0.5304 | 0.350                    | -0.5341 | 0.350                      | -0.4858 |
| 0.400                       | -0.4854 | 0.400                    | -0.5127 | 0.400                      | -0.4639 |
| 0.450                       | -0.4393 | 0.450                    | -0.4716 | 0.450                      | -0.4384 |
| 0.500                       | -0.4233 | 0.500                    | -0.4523 | 0.500                      | -0.4095 |
| 0.550                       | -0.3734 | 0.550                    | -0.4495 | 0.550                      | -0.4187 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4115 | 0.005 | 0.4213 | 0.005 | 0.3517 |
| 0.010 | 0.2177 | 0.010 | 0.1995 | 0.010 | 0.0970 |

Flight 23 Test point 14

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 336.9 Rnpu = 2992000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9647  | 0.000                    | 1.0070  | 0.000                      | 0.9919  |
| 0.005                       | 0.1453  | 0.005                    | 0.2263  | 0.005                      | 0.5050  |
| 0.010                       | -0.1297 | 0.010                    | -0.0476 | 0.010                      | 0.2128  |
| 0.020                       | -0.3865 | 0.020                    | -0.3100 | 0.020                      | -0.1405 |
| 0.040                       | -0.5674 | 0.040                    | -0.4585 | 0.040                      | -0.3163 |
| 0.060                       | -0.6025 | 0.060                    | -0.5076 | 0.060                      | -0.4130 |
| 0.080                       | -0.6337 | 0.080                    | -0.5465 | 0.080                      | -0.4472 |
| 0.100                       | -0.6471 | 0.100                    | -0.5624 | 0.100                      | -0.4686 |
| 0.125                       | -0.5897 | 0.125                    | -0.5704 | 0.125                      | -0.4778 |
| 0.150                       | -0.6767 | 0.150                    | -0.6028 | 0.150                      | -0.5066 |
| 0.175                       | -0.6351 | 0.175                    | -0.6394 | 0.175                      | -0.5308 |
| 0.200                       | -0.7236 | 0.200                    | -0.6607 | 0.200                      | -0.5347 |
| 0.250                       | -0.7252 | 0.250                    | -0.7117 | 0.250                      | -0.5812 |
| 0.300                       | -0.7045 | 0.300                    | -0.6988 | 0.300                      | -0.5824 |
| 0.350                       | -0.6473 | 0.350                    | -0.6563 | 0.350                      | -0.5821 |
| 0.400                       | -0.5834 | 0.400                    | -0.6402 | 0.400                      | -0.5606 |
| 0.450                       | -0.5198 | 0.450                    | -0.5720 | 0.450                      | -0.5306 |
| 0.500                       | -0.4986 | 0.500                    | -0.5489 | 0.500                      | -0.4889 |
| 0.550                       | -0.4329 | 0.550                    | -0.5323 | 0.550                      | -0.4704 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4036 | 0.005 | 0.3948 | 0.005 | 0.2899  |
| 0.010 | 0.1345 | 0.010 | 0.0637 | 0.010 | -0.1097 |

Flight 23 Test point 15

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 20100. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 334.0 Rnpu = 2968000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9677  | 0.000                    | 1.0070  | 0.000                      | 0.9937  |
| 0.005                       | 0.2028  | 0.005                    | 0.2781  | 0.005                      | 0.5474  |
| 0.010                       | -0.0736 | 0.010                    | 0.0117  | 0.010                      | 0.2621  |
| 0.020                       | -0.3287 | 0.020                    | -0.2530 | 0.020                      | -0.0859 |
| 0.040                       | -0.5118 | 0.040                    | -0.4039 | 0.040                      | -0.2689 |
| 0.060                       | -0.5549 | 0.060                    | -0.4640 | 0.060                      | -0.3663 |
| 0.080                       | -0.5904 | 0.080                    | -0.5058 | 0.080                      | -0.4035 |
| 0.100                       | -0.6049 | 0.100                    | -0.5183 | 0.100                      | -0.4310 |
| 0.125                       | -0.5602 | 0.125                    | -0.5310 | 0.125                      | -0.4440 |
| 0.150                       | -0.6450 | 0.150                    | -0.5707 | 0.150                      | -0.4745 |
| 0.175                       | -0.6378 | 0.175                    | -0.6077 | 0.175                      | -0.4986 |
| 0.200                       | -0.6905 | 0.200                    | -0.6308 | 0.200                      | -0.5057 |
| 0.250                       | -0.6944 | 0.250                    | -0.6807 | 0.250                      | -0.5554 |
| 0.300                       | -0.6841 | 0.300                    | -0.6676 | 0.300                      | -0.5637 |
| 0.350                       | -0.6287 | 0.350                    | -0.6334 | 0.350                      | -0.5631 |
| 0.400                       | -0.5706 | 0.400                    | -0.6214 | 0.400                      | -0.5440 |
| 0.450                       | -0.5128 | 0.450                    | -0.5632 | 0.450                      | -0.5150 |
| 0.500                       | -0.4901 | 0.500                    | -0.5382 | 0.500                      | -0.4776 |
| 0.550                       | -0.4271 | 0.550                    | -0.5246 | 0.550                      | -0.4626 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3533 | 0.005 | 0.3410 | 0.005 | 0.2367  |
| 0.010 | 0.0749 | 0.010 | 0.0068 | 0.010 | -0.1776 |



Flight 23 Test point 16

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 19900. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.6 QBAR, lb/ft<sup>2</sup> = 334.0 Rnpu = 2975000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9499  | 0.000                    | 0.9949  | 0.000                      | 0.9915  |
| 0.005                       | -0.0017 | 0.005                    | 0.0789  | 0.005                      | 0.3933  |
| 0.010                       | -0.2838 | 0.010                    | -0.1987 | 0.010                      | 0.0818  |
| 0.020                       | -0.5414 | 0.020                    | -0.4584 | 0.020                      | -0.2825 |
| 0.040                       | -0.7051 | 0.040                    | -0.5894 | 0.040                      | -0.4381 |
| 0.060                       | -0.7245 | 0.060                    | -0.6270 | 0.060                      | -0.5191 |
| 0.080                       | -0.7376 | 0.080                    | -0.6549 | 0.080                      | -0.5400 |
| 0.100                       | -0.7432 | 0.100                    | -0.6524 | 0.100                      | -0.5559 |
| 0.125                       | -0.6647 | 0.125                    | -0.6534 | 0.125                      | -0.5534 |
| 0.150                       | -0.7595 | 0.150                    | -0.6828 | 0.150                      | -0.5735 |
| 0.175                       | -0.7313 | 0.175                    | -0.7159 | 0.175                      | -0.5927 |
| 0.200                       | -0.7905 | 0.200                    | -0.7324 | 0.200                      | -0.5943 |
| 0.250                       | -0.7753 | 0.250                    | -0.7721 | 0.250                      | -0.6358 |
| 0.300                       | -0.7526 | 0.300                    | -0.7461 | 0.300                      | -0.6229 |
| 0.350                       | -0.6820 | 0.350                    | -0.6925 | 0.350                      | -0.6198 |
| 0.400                       | -0.6134 | 0.400                    | -0.6648 | 0.400                      | -0.5791 |
| 0.450                       | -0.5446 | 0.450                    | -0.5953 | 0.450                      | -0.5517 |
| 0.500                       | -0.5155 | 0.500                    | -0.5681 | 0.500                      | -0.5032 |
| 0.550                       | -0.4428 | 0.550                    | -0.5454 | 0.550                      | -0.4792 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5134 | 0.005 | 0.5082 | 0.005 | 0.4168 |
| 0.010 | 0.2603 | 0.010 | 0.2057 | 0.010 | 0.0433 |

Fight 23 Test point 17

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 385.6 Rnpu = 3221000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9805  | 0.000                    | 1.0170  | 0.000                      | 1.0009  |
| 0.005                       | 0.3085  | 0.005                    | 0.3719  | 0.005                      | 0.6046  |
| 0.010                       | 0.0372  | 0.010                    | 0.1124  | 0.010                      | 0.3315  |
| 0.020                       | -0.2201 | 0.020                    | -0.1593 | 0.020                      | -0.0152 |
| 0.040                       | -0.4347 | 0.040                    | -0.3329 | 0.040                      | -0.2134 |
| 0.060                       | -0.5018 | 0.060                    | -0.4157 | 0.060                      | -0.3293 |
| 0.080                       | -0.5487 | 0.080                    | -0.4718 | 0.080                      | -0.3862 |
| 0.100                       | -0.5901 | 0.100                    | -0.4989 | 0.100                      | -0.4227 |
| 0.125                       | -0.5569 | 0.125                    | -0.5160 | 0.125                      | -0.4460 |
| 0.150                       | -0.6547 | 0.150                    | -0.5637 | 0.150                      | -0.4933 |
| 0.175                       | -0.6239 | 0.175                    | -0.6175 | 0.175                      | -0.5299 |
| 0.200                       | -0.7300 | 0.200                    | -0.6541 | 0.200                      | -0.5387 |
| 0.250                       | -0.8248 | 0.250                    | -0.8277 | 0.250                      | -0.5983 |
| 0.300                       | -0.8190 | 0.300                    | -0.7950 | 0.300                      | -0.6510 |
| 0.350                       | -0.7468 | 0.350                    | -0.8199 | 0.350                      | -0.7103 |
| 0.400                       | -0.6292 | 0.400                    | -0.6569 | 0.400                      | -0.5964 |
| 0.450                       | -0.5426 | 0.450                    | -0.5887 | 0.450                      | -0.5694 |
| 0.500                       | -0.5121 | 0.500                    | -0.5745 | 0.500                      | -0.5099 |
| 0.550                       | -0.4454 | 0.550                    | -0.5487 | 0.550                      | -0.4682 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3104 | 0.005 | 0.2979  | 0.005 | 0.2127  |
| 0.010 | 0.0243 | 0.010 | -0.0522 | 0.010 | -0.2129 |

Flight 23 Test point 18

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 19900. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 384.8 Rrho = 3221000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9822  | 0.000                    | 1.0200  | 0.000                      | 1.0036  |
| 0.005                       | 0.2769  | 0.005                    | 0.3460  | 0.005                      | 0.5884  |
| 0.010                       | 0.0051  | 0.010                    | 0.0873  | 0.010                      | 0.3124  |
| 0.020                       | -0.2572 | 0.020                    | -0.1871 | 0.020                      | -0.0418 |
| 0.040                       | -0.4657 | 0.040                    | -0.3567 | 0.040                      | -0.2373 |
| 0.060                       | -0.5300 | 0.060                    | -0.4340 | 0.060                      | -0.3468 |
| 0.080                       | -0.5739 | 0.080                    | -0.4912 | 0.080                      | -0.4032 |
| 0.100                       | -0.6109 | 0.100                    | -0.5157 | 0.100                      | -0.4407 |
| 0.125                       | -0.5699 | 0.125                    | -0.5337 | 0.125                      | -0.4594 |
| 0.150                       | -0.6761 | 0.150                    | -0.5815 | 0.150                      | -0.5073 |
| 0.175                       | -0.6753 | 0.175                    | -0.6338 | 0.175                      | -0.5409 |
| 0.200                       | -0.7356 | 0.200                    | -0.6677 | 0.200                      | -0.5515 |
| 0.250                       | -0.8386 | 0.250                    | -0.8457 | 0.250                      | -0.6089 |
| 0.300                       | -0.8370 | 0.300                    | -0.8154 | 0.300                      | -0.6619 |
| 0.350                       | -0.7548 | 0.350                    | -0.8337 | 0.350                      | -0.7099 |
| 0.400                       | -0.6267 | 0.400                    | -0.6449 | 0.400                      | -0.6051 |
| 0.450                       | -0.5471 | 0.450                    | -0.5919 | 0.450                      | -0.5733 |
| 0.500                       | -0.5158 | 0.500                    | -0.5753 | 0.500                      | -0.5104 |
| 0.550                       | -0.4480 | 0.550                    | -0.5466 | 0.550                      | -0.4687 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3383 | 0.005 | 0.3262  | 0.005 | 0.2386  |
| 0.010 | 0.0574 | 0.010 | -0.0174 | 0.010 | -0.1802 |

Flight 23 Test point 19

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 380.1 Rnpu = 3195000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9690  | 0.000                    | 1.0032  | 0.000                      | 0.9973  |
| 0.005                       | 0.0563  | 0.005                    | 0.1138  | 0.005                      | 0.3920  |
| 0.010                       | -0.2232 | 0.010                    | -0.1664 | 0.010                      | 0.0793  |
| 0.020                       | -0.4864 | 0.020                    | -0.4311 | 0.020                      | -0.2951 |
| 0.040                       | -0.7250 | 0.040                    | -0.5886 | 0.040                      | -0.4700 |
| 0.060                       | -0.6968 | 0.060                    | -0.6257 | 0.060                      | -0.5554 |
| 0.080                       | -0.8047 | 0.080                    | -0.7271 | 0.080                      | -0.5964 |
| 0.100                       | -0.7747 | 0.100                    | -0.6809 | 0.100                      | -0.6698 |
| 0.125                       | -0.6782 | 0.125                    | -0.7273 | 0.125                      | -0.6028 |
| 0.150                       | -0.8316 | 0.150                    | -0.7164 | 0.150                      | -0.6459 |
| 0.175                       | -0.8229 | 0.175                    | -0.7770 | 0.175                      | -0.7202 |
| 0.200                       | -0.9067 | 0.200                    | -0.8058 | 0.200                      | -0.7613 |
| 0.250                       | -0.9708 | 0.250                    | -0.9132 | 0.250                      | -0.7590 |
| 0.300                       | -1.0158 | 0.300                    | -0.9809 | 0.300                      | -0.7286 |
| 0.350                       | -0.9610 | 0.350                    | -0.9992 | 0.350                      | -0.8673 |
| 0.400                       | -0.6482 | 0.400                    | -1.0502 | 0.400                      | -0.8610 |
| 0.450                       | -0.5529 | 0.450                    | -0.5662 | 0.450                      | -0.5245 |
| 0.500                       | -0.5218 | 0.500                    | -0.5152 | 0.500                      | -0.5213 |
| 0.550                       | -0.4560 | 0.550                    | -0.5265 | 0.550                      | -0.4796 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5241 | 0.005 | 0.5308 | 0.005 | 0.4629 |
| 0.010 | 0.2722 | 0.010 | 0.2292 | 0.010 | 0.1004 |

Flight 23 Test point 20

Sweep, deg = 30.1 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 440.5 Rnpu = 3465000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8253  | 0.000                    | 0.8564  | 0.000                      | 0.8441  |
| 0.005                       | 0.2701  | 0.005                    | 0.3033  | 0.005                      | 0.4984  |
| 0.010                       | 0.0372  | 0.010                    | 0.0882  | 0.010                      | 0.2672  |
| 0.020                       | -0.1856 | 0.020                    | -0.1522 | 0.020                      | -0.0334 |
| 0.040                       | -0.3687 | 0.040                    | -0.3022 | 0.040                      | -0.2046 |
| 0.060                       | -0.4599 | 0.060                    | -0.3882 | 0.060                      | -0.3116 |
| 0.080                       | -0.4678 | 0.080                    | -0.4300 | 0.080                      | -0.3838 |
| 0.100                       | -0.5196 | 0.100                    | -0.4677 | 0.100                      | -0.3928 |
| 0.125                       | -0.4675 | 0.125                    | -0.4662 | 0.125                      | -0.4147 |
| 0.150                       | -0.5491 | 0.150                    | -0.5057 | 0.150                      | -0.4827 |
| 0.175                       | -0.5341 | 0.175                    | -0.5501 | 0.175                      | -0.5639 |
| 0.200                       | -0.6209 | 0.200                    | -0.5999 | 0.200                      | -0.4798 |
| 0.250                       | -0.6973 | 0.250                    | -0.7173 | 0.250                      | -0.5865 |
| 0.300                       | -0.7239 | 0.300                    | -0.7420 | 0.300                      | -0.6137 |
| 0.350                       | -0.7005 | 0.350                    | -0.7681 | 0.350                      | -0.6878 |
| 0.400                       | -0.6892 | 0.400                    | -0.7991 | 0.400                      | -0.7252 |
| 0.450                       | -0.6610 | 0.450                    | -0.5484 | 0.450                      | -0.4314 |
| 0.500                       | -0.4387 | 0.500                    | -0.4630 | 0.500                      | -0.4159 |
| 0.550                       | -0.4014 | 0.550                    | -0.4659 | 0.550                      | -0.4096 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2323  | 0.005 | 0.2356  | 0.005 | 0.1679  |
| 0.010 | -0.0134 | 0.010 | -0.0630 | 0.010 | -0.1862 |

Flight 23 Test point 21

Sweep, deg = 30.2 Mach = 0.80 hp, ft = 19700. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 440.1 Rrho = 3472000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8204  | 0.000                    | 0.8541  | 0.000                      | 0.8419  |
| 0.005                       | 0.2750  | 0.005                    | 0.3091  | 0.005                      | 0.5025  |
| 0.010                       | 0.0438  | 0.010                    | 0.0944  | 0.010                      | 0.2712  |
| 0.020                       | -0.1791 | 0.020                    | -0.1487 | 0.020                      | -0.0254 |
| 0.040                       | -0.3575 | 0.040                    | -0.2997 | 0.040                      | -0.1987 |
| 0.060                       | -0.4351 | 0.060                    | -0.3844 | 0.060                      | -0.3066 |
| 0.080                       | -0.4586 | 0.080                    | -0.4250 | 0.080                      | -0.3717 |
| 0.100                       | -0.5138 | 0.100                    | -0.4504 | 0.100                      | -0.3895 |
| 0.125                       | -0.4791 | 0.125                    | -0.4613 | 0.125                      | -0.4100 |
| 0.150                       | -0.5448 | 0.150                    | -0.4967 | 0.150                      | -0.4773 |
| 0.175                       | -0.5516 | 0.175                    | -0.5571 | 0.175                      | -0.4759 |
| 0.200                       | -0.6304 | 0.200                    | -0.5971 | 0.200                      | -0.4950 |
| 0.250                       | -0.6771 | 0.250                    | -0.6882 | 0.250                      | -0.5209 |
| 0.300                       | -0.6980 | 0.300                    | -0.7238 | 0.300                      | -0.6214 |
| 0.350                       | -0.6711 | 0.350                    | -0.7335 | 0.350                      | -0.6784 |
| 0.400                       | -0.6709 | 0.400                    | -0.7593 | 0.400                      | -0.5537 |
| 0.450                       | -0.5950 | 0.450                    | -0.4786 | 0.450                      | -0.4693 |
| 0.500                       | -0.4462 | 0.500                    | -0.5236 | 0.500                      | -0.4353 |
| 0.550                       | -0.4050 | 0.550                    | -0.4812 | 0.550                      | -0.4175 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2188  | 0.005 | 0.2260  | 0.005 | 0.1569  |
| 0.010 | -0.0256 | 0.010 | -0.0745 | 0.010 | -0.1965 |

Flight 23 Test point 22

Sweep, deg = 30.1 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 436.5 Rrho = 3445000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8194  | 0.000                    | 0.8511  | 0.000                      | 0.8420  |
| 0.005                       | 0.1145  | 0.005                    | 0.1488  | 0.005                      | 0.3728  |
| 0.010                       | -0.1220 | 0.010                    | -0.0821 | 0.010                      | 0.1130  |
| 0.020                       | -0.3373 | 0.020                    | -0.3144 | 0.020                      | -0.2037 |
| 0.040                       | -0.5089 | 0.040                    | -0.4370 | 0.040                      | -0.3483 |
| 0.060                       | -0.5731 | 0.060                    | -0.5025 | 0.060                      | -0.4152 |
| 0.080                       | -0.6354 | 0.080                    | -0.6444 | 0.080                      | -0.4958 |
| 0.100                       | -0.6062 | 0.100                    | -0.4989 | 0.100                      | -0.6220 |
| 0.125                       | -0.5870 | 0.125                    | -0.6095 | 0.125                      | -0.4438 |
| 0.150                       | -0.6805 | 0.150                    | -0.6094 | 0.150                      | -0.5410 |
| 0.175                       | -0.6799 | 0.175                    | -0.6528 | 0.175                      | -0.6333 |
| 0.200                       | -0.7423 | 0.200                    | -0.6178 | 0.200                      | -0.6404 |
| 0.250                       | -0.7978 | 0.250                    | -0.8022 | 0.250                      | -0.6847 |
| 0.300                       | -0.7252 | 0.300                    | -0.8460 | 0.300                      | -0.8286 |
| 0.350                       | -0.7309 | 0.350                    | -0.8604 | 0.350                      | -0.7966 |
| 0.400                       | -0.7405 | 0.400                    | -0.9142 | 0.400                      | -0.8383 |
| 0.450                       | -0.7351 | 0.450                    | -0.8915 | 0.450                      | -0.8492 |
| 0.500                       | -0.5041 | 0.500                    | -0.4640 | 0.500                      | -0.3589 |
| 0.550                       | -0.3992 | 0.550                    | -0.4290 | 0.550                      | -0.3837 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3582 | 0.005 | 0.3706 | 0.005 | 0.3181  |
| 0.010 | 0.1299 | 0.010 | 0.0994 | 0.010 | -0.0079 |

Fight 23 Test point 23

Sweep, deg = 35.5 Mach = 0.81 hp, ft = 20000. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 442.0 Rnpu = 3472000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7197  | 0.000                    | 0.7501  | 0.000                      | 0.7457  |
| 0.005                       | 0.1495  | 0.005                    | 0.1646  | 0.005                      | 0.3657  |
| 0.010                       | -0.0636 | 0.010                    | -0.0306 | 0.010                      | 0.1412  |
| 0.020                       | -0.2591 | 0.020                    | -0.2493 | 0.020                      | -0.1315 |
| 0.040                       | -0.4069 | 0.040                    | -0.3690 | 0.040                      | -0.2728 |
| 0.060                       | -0.4908 | 0.060                    | -0.4576 | 0.060                      | -0.3645 |
| 0.080                       | -0.4716 | 0.080                    | -0.4571 | 0.080                      | -0.4400 |
| 0.100                       | -0.5354 | 0.100                    | -0.5033 | 0.100                      | -0.4079 |
| 0.125                       | -0.4673 | 0.125                    | -0.4810 | 0.125                      | -0.4273 |
| 0.150                       | -0.5493 | 0.150                    | -0.5111 | 0.150                      | -0.4946 |
| 0.175                       | -0.5347 | 0.175                    | -0.5587 | 0.175                      | -0.4599 |
| 0.200                       | -0.5888 | 0.200                    | -0.5704 | 0.200                      | -0.4602 |
| 0.250                       | -0.6168 | 0.250                    | -0.6555 | 0.250                      | -0.5218 |
| 0.300                       | -0.6232 | 0.300                    | -0.6668 | 0.300                      | -0.5502 |
| 0.350                       | -0.6227 | 0.350                    | -0.5424 | 0.350                      | -0.5696 |
| 0.400                       | -0.5841 | 0.400                    | -0.5161 | 0.400                      | -0.4778 |
| 0.450                       | -0.4456 | 0.450                    | -0.5066 | 0.450                      | -0.4539 |
| 0.500                       | -0.4332 | 0.500                    | -0.4856 | 0.500                      | -0.4059 |
| 0.550                       | -0.3847 | 0.550                    | -0.4493 | 0.550                      | -0.4045 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.2370 | 0.005 | 0.2613 | 0.005 | 0.2055  |
| 0.010 | 0.0248 | 0.010 | 0.0052 | 0.010 | -0.0893 |



Fight 23 Test point 24

Sweep, deg = 35.6 Mach = 0.80 hp, ft = 19900. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 438.2 Rrho = 3458000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7171  | 0.000                    | 0.7492  | 0.000                      | 0.7421  |
| 0.005                       | 0.1917  | 0.005                    | 0.2083  | 0.005                      | 0.4055  |
| 0.010                       | -0.0190 | 0.010                    | 0.0153  | 0.010                      | 0.1897  |
| 0.020                       | -0.2152 | 0.020                    | -0.2002 | 0.020                      | -0.0781 |
| 0.040                       | -0.3688 | 0.040                    | -0.3276 | 0.040                      | -0.2252 |
| 0.060                       | -0.4186 | 0.060                    | -0.3883 | 0.060                      | -0.3209 |
| 0.080                       | -0.4484 | 0.080                    | -0.4283 | 0.080                      | -0.3657 |
| 0.100                       | -0.4703 | 0.100                    | -0.4358 | 0.100                      | -0.3748 |
| 0.125                       | -0.4348 | 0.125                    | -0.4400 | 0.125                      | -0.3946 |
| 0.150                       | -0.4985 | 0.150                    | -0.4648 | 0.150                      | -0.4150 |
| 0.175                       | -0.5182 | 0.175                    | -0.5131 | 0.175                      | -0.4362 |
| 0.200                       | -0.5624 | 0.200                    | -0.5768 | 0.200                      | -0.4330 |
| 0.250                       | -0.5889 | 0.250                    | -0.5849 | 0.250                      | -0.4987 |
| 0.300                       | -0.5891 | 0.300                    | -0.5463 | 0.300                      | -0.5364 |
| 0.350                       | -0.5773 | 0.350                    | -0.5475 | 0.350                      | -0.4998 |
| 0.400                       | -0.5213 | 0.400                    | -0.5275 | 0.400                      | -0.4741 |
| 0.450                       | -0.4417 | 0.450                    | -0.4917 | 0.450                      | -0.4449 |
| 0.500                       | -0.4256 | 0.500                    | -0.4550 | 0.500                      | -0.4031 |
| 0.550                       | -0.3784 | 0.550                    | -0.4417 | 0.550                      | -0.3985 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.1937  | 0.005 | 0.2140  | 0.005 | 0.1484  |
| 0.010 | -0.0240 | 0.010 | -0.0487 | 0.010 | -0.1543 |

Flight 23 Test point 25

Sweep, deg = 35.6 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 439.8 Rnpu = 3461000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7168  | 0.000                    | 0.7419  | 0.000                      | 0.7379  |
| 0.005                       | 0.0458  | 0.005                    | 0.0612  | 0.005                      | 0.2768  |
| 0.010                       | -0.1713 | 0.010                    | -0.1411 | 0.010                      | 0.0385  |
| 0.020                       | -0.3660 | 0.020                    | -0.3586 | 0.020                      | -0.2431 |
| 0.040                       | -0.4884 | 0.040                    | -0.4512 | 0.040                      | -0.3681 |
| 0.060                       | -0.5733 | 0.060                    | -0.5237 | 0.060                      | -0.4354 |
| 0.080                       | -0.4970 | 0.080                    | -0.6489 | 0.080                      | -0.5238 |
| 0.100                       | -0.5769 | 0.100                    | -0.5446 | 0.100                      | -0.6106 |
| 0.125                       | -0.5373 | 0.125                    | -0.5456 | 0.125                      | -0.4690 |
| 0.150                       | -0.6042 | 0.150                    | -0.5520 | 0.150                      | -0.5421 |
| 0.175                       | -0.5812 | 0.175                    | -0.5866 | 0.175                      | -0.6176 |
| 0.200                       | -0.6495 | 0.200                    | -0.6443 | 0.200                      | -0.4804 |
| 0.250                       | -0.6845 | 0.250                    | -0.7036 | 0.250                      | -0.5464 |
| 0.300                       | -0.6716 | 0.300                    | -0.7268 | 0.300                      | -0.5909 |
| 0.350                       | -0.6389 | 0.350                    | -0.6884 | 0.350                      | -0.6728 |
| 0.400                       | -0.6375 | 0.400                    | -0.4970 | 0.400                      | -0.4715 |
| 0.450                       | -0.4638 | 0.450                    | -0.5038 | 0.450                      | -0.4598 |
| 0.500                       | -0.4369 | 0.500                    | -0.4779 | 0.500                      | -0.4144 |
| 0.550                       | -0.3896 | 0.550                    | -0.4609 | 0.550                      | -0.4079 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3265 | 0.005 | 0.3475 | 0.005 | 0.2995 |
| 0.010 | 0.1218 | 0.010 | 0.1102 | 0.010 | 0.0303 |

Fight 23 Test point 26

Sweep, deg = 34.9 Mach = 0.83 hp, ft = 20000. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 464.8 Rrho = 3569000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7385  | 0.000                    | 0.7669  | 0.000                      | 0.7596  |
| 0.005                       | 0.2264  | 0.005                    | 0.2428  | 0.005                      | 0.4245  |
| 0.010                       | 0.0139  | 0.010                    | 0.0482  | 0.010                      | 0.2079  |
| 0.020                       | -0.1871 | 0.020                    | -0.1769 | 0.020                      | -0.0664 |
| 0.040                       | -0.3449 | 0.040                    | -0.3033 | 0.040                      | -0.2204 |
| 0.060                       | -0.4446 | 0.060                    | -0.4058 | 0.060                      | -0.3145 |
| 0.080                       | -0.4209 | 0.080                    | -0.4039 | 0.080                      | -0.4169 |
| 0.100                       | -0.4860 | 0.100                    | -0.4734 | 0.100                      | -0.3620 |
| 0.125                       | -0.4313 | 0.125                    | -0.4378 | 0.125                      | -0.3998 |
| 0.150                       | -0.5095 | 0.150                    | -0.4825 | 0.150                      | -0.4683 |
| 0.175                       | -0.5258 | 0.175                    | -0.5178 | 0.175                      | -0.5493 |
| 0.200                       | -0.5802 | 0.200                    | -0.5719 | 0.200                      | -0.5083 |
| 0.250                       | -0.6314 | 0.250                    | -0.6478 | 0.250                      | -0.5358 |
| 0.300                       | -0.6511 | 0.300                    | -0.6951 | 0.300                      | -0.5777 |
| 0.350                       | -0.6465 | 0.350                    | -0.7146 | 0.350                      | -0.6499 |
| 0.400                       | -0.6472 | 0.400                    | -0.7353 | 0.400                      | -0.6186 |
| 0.450                       | -0.6156 | 0.450                    | -0.5017 | 0.450                      | -0.4682 |
| 0.500                       | -0.4920 | 0.500                    | -0.4139 | 0.500                      | -0.3824 |
| 0.550                       | -0.3704 | 0.550                    | -0.4307 | 0.550                      | -0.3864 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.1966  | 0.005 | 0.2139  | 0.005 | 0.1607  |
| 0.010 | -0.0270 | 0.010 | -0.0548 | 0.010 | -0.1475 |

Fight 23 Test point 27

Sweep, deg = 30.0 Mach = 0.83 hp, ft = 20000. Angle of attack, deg = -0.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 466.2 Rnpu = 3586000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8202  | 0.000                    | 0.8577  | 0.000                      | 0.8417  |
| 0.005                       | 0.3426  | 0.005                    | 0.3849  | 0.005                      | 0.5609  |
| 0.010                       | 0.1182  | 0.010                    | 0.1763  | 0.010                      | 0.3447  |
| 0.020                       | -0.0962 | 0.020                    | -0.0640 | 0.020                      | 0.0519  |
| 0.040                       | -0.2859 | 0.040                    | -0.2194 | 0.040                      | -0.1274 |
| 0.060                       | -0.3901 | 0.060                    | -0.3156 | 0.060                      | -0.2435 |
| 0.080                       | -0.4014 | 0.080                    | -0.3596 | 0.080                      | -0.3222 |
| 0.100                       | -0.4606 | 0.100                    | -0.4121 | 0.100                      | -0.3345 |
| 0.125                       | -0.4589 | 0.125                    | -0.4071 | 0.125                      | -0.3567 |
| 0.150                       | -0.5311 | 0.150                    | -0.4298 | 0.150                      | -0.4288 |
| 0.175                       | -0.5405 | 0.175                    | -0.4932 | 0.175                      | -0.5175 |
| 0.200                       | -0.5976 | 0.200                    | -0.5432 | 0.200                      | -0.4852 |
| 0.250                       | -0.6698 | 0.250                    | -0.7028 | 0.250                      | -0.5505 |
| 0.300                       | -0.6329 | 0.300                    | -0.7091 | 0.300                      | -0.5966 |
| 0.350                       | -0.6759 | 0.350                    | -0.7478 | 0.350                      | -0.6895 |
| 0.400                       | -0.6909 | 0.400                    | -0.7940 | 0.400                      | -0.7526 |
| 0.450                       | -0.7053 | 0.450                    | -0.7863 | 0.450                      | -0.7870 |
| 0.500                       | -0.7553 | 0.500                    | -0.8301 | 0.500                      | -0.8104 |
| 0.550                       | -0.5700 | 0.550                    | -0.7521 | 0.550                      | -0.4789 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.1666  | 0.005 | 0.1768  | 0.005 | 0.1009  |
| 0.010 | -0.0866 | 0.010 | -0.1294 | 0.010 | -0.2711 |

Fight 23 Test point 28

Sweep, deg = 25.1 Mach = 0.80 hp, ft = 34900. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 222.7 Rnpu = 1978000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9249  | 0.000                    | 0.9688  | 0.000                      | 0.9538  |
| 0.005                       | 0.2750  | 0.005                    | 0.3163  | 0.005                      | 0.5341  |
| 0.010                       | 0.0233  | 0.010                    | 0.0857  | 0.010                      | 0.2679  |
| 0.020                       | -0.2161 | 0.020                    | -0.1768 | 0.020                      | -0.0598 |
| 0.040                       | -0.4176 | 0.040                    | -0.3390 | 0.040                      | -0.2467 |
| 0.060                       | -0.5031 | 0.060                    | -0.4164 | 0.060                      | -0.3482 |
| 0.080                       | -0.5590 | 0.080                    | -0.4771 | 0.080                      | -0.4172 |
| 0.100                       | -0.5370 | 0.100                    | -0.4947 | 0.100                      | -0.4561 |
| 0.125                       | -0.5729 | 0.125                    | -0.4726 | 0.125                      | -0.4455 |
| 0.150                       | -0.6176 | 0.150                    | -0.5588 | 0.150                      | -0.4998 |
| 0.175                       | -0.6532 | 0.175                    | -0.6100 | 0.175                      | -0.5836 |
| 0.200                       | -0.7232 | 0.200                    | -0.6407 | 0.200                      | -0.6304 |
| 0.250                       | -0.8009 | 0.250                    | -0.7840 | 0.250                      | -0.6215 |
| 0.300                       | -0.8553 | 0.300                    | -0.8274 | 0.300                      | -0.6535 |
| 0.350                       | -0.8455 | 0.350                    | -0.8408 | 0.350                      | -0.7772 |
| 0.400                       | -0.8093 | 0.400                    | -0.9217 | 0.400                      | -0.8198 |
| 0.450                       | -0.7244 | 0.450                    | -0.9315 | 0.450                      | -0.8773 |
| 0.500                       | -0.6014 | 0.500                    | -0.9795 | 0.500                      | -0.8891 |
| 0.550                       | -0.3875 | 0.550                    | -0.4590 | 0.550                      | -0.3966 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3227 | 0.005 | 0.3478 | 0.005 | 0.2896  |
| 0.010 | 0.0655 | 0.010 | 0.0291 | 0.010 | -0.0950 |

Fight 23 Test point 29

Sweep, deg = 25.1 Mach = 0.81 hp, ft = 34500. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 231.3 Rnpu = 2036000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9167  | 0.000                    | 0.9633  | 0.000                      | 0.9493  |
| 0.005                       | 0.1352  | 0.005                    | 0.1767  | 0.005                      | 0.4199  |
| 0.010                       | -0.1225 | 0.010                    | -0.0625 | 0.010                      | 0.1340  |
| 0.020                       | -0.3580 | 0.020                    | -0.3210 | 0.020                      | -0.2066 |
| 0.040                       | -0.6171 | 0.040                    | -0.4844 | 0.040                      | -0.3730 |
| 0.060                       | -0.5801 | 0.060                    | -0.5053 | 0.060                      | -0.4541 |
| 0.080                       | -0.6796 | 0.080                    | -0.6211 | 0.080                      | -0.4919 |
| 0.100                       | -0.6947 | 0.100                    | -0.7497 | 0.100                      | -0.6011 |
| 0.125                       | -0.6189 | 0.125                    | -0.6160 | 0.125                      | -0.6591 |
| 0.150                       | -0.7282 | 0.150                    | -0.6601 | 0.150                      | -0.5195 |
| 0.175                       | -0.7318 | 0.175                    | -0.6997 | 0.175                      | -0.5962 |
| 0.200                       | -0.8141 | 0.200                    | -0.7099 | 0.200                      | -0.6653 |
| 0.250                       | -0.9031 | 0.250                    | -0.8164 | 0.250                      | -0.7435 |
| 0.300                       | -0.9603 | 0.300                    | -0.8843 | 0.300                      | -0.7814 |
| 0.350                       | -0.9487 | 0.350                    | -0.9277 | 0.350                      | -0.8352 |
| 0.400                       | -0.9334 | 0.400                    | -1.0070 | 0.400                      | -0.9059 |
| 0.450                       | -0.9549 | 0.450                    | -1.0161 | 0.450                      | -0.9716 |
| 0.500                       | -1.0419 | 0.500                    | -0.9376 | 0.500                      | -0.9882 |
| 0.550                       | -0.4444 | 0.550                    | -0.4304 | 0.550                      | -0.4299 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4644 | 0.005 | 0.4847 | 0.005 | 0.4282 |
| 0.010 | 0.2191 | 0.010 | 0.1944 | 0.010 | 0.0815 |

Fight 23 Test point 30

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 35100. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 223.4 Rnpu = 1978000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9933  | 0.000                    | 1.0451  | 0.000                      | 1.0266  |
| 0.005                       | 0.3216  | 0.005                    | 0.3849  | 0.005                      | 0.6041  |
| 0.010                       | 0.0567  | 0.010                    | 0.1329  | 0.010                      | 0.3293  |
| 0.020                       | -0.1977 | 0.020                    | -0.1367 | 0.020                      | -0.0076 |
| 0.040                       | -0.4172 | 0.040                    | -0.3214 | 0.040                      | -0.2124 |
| 0.060                       | -0.4913 | 0.060                    | -0.3981 | 0.060                      | -0.3291 |
| 0.080                       | -0.6040 | 0.080                    | -0.5009 | 0.080                      | -0.3871 |
| 0.100                       | -0.5489 | 0.100                    | -0.4694 | 0.100                      | -0.4541 |
| 0.125                       | -0.5600 | 0.125                    | -0.5476 | 0.125                      | -0.4314 |
| 0.150                       | -0.6579 | 0.150                    | -0.5419 | 0.150                      | -0.4789 |
| 0.175                       | -0.6751 | 0.175                    | -0.6121 | 0.175                      | -0.5556 |
| 0.200                       | -0.7570 | 0.200                    | -0.6539 | 0.200                      | -0.6180 |
| 0.250                       | -0.8434 | 0.250                    | -0.7661 | 0.250                      | -0.6671 |
| 0.300                       | -0.9120 | 0.300                    | -0.8253 | 0.300                      | -0.7004 |
| 0.350                       | -0.9191 | 0.350                    | -0.8752 | 0.350                      | -0.7728 |
| 0.400                       | -0.9063 | 0.400                    | -0.9648 | 0.400                      | -0.8466 |
| 0.450                       | -0.9418 | 0.450                    | -0.9950 | 0.450                      | -0.9136 |
| 0.500                       | -1.0379 | 0.500                    | -1.0416 | 0.500                      | -0.9307 |
| 0.550                       | -0.4629 | 0.550                    | -0.6613 | 0.550                      | -0.8905 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3769 | 0.005 | 0.3873 | 0.005 | 0.3224  |
| 0.010 | 0.1026 | 0.010 | 0.0485 | 0.010 | -0.0946 |

Flight 23 Test point 31

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 224.3 Rnpu = 1987000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9922  | 0.000                    | 1.0397  | 0.000                      | 1.0248  |
| 0.005                       | 0.1914  | 0.005                    | 0.2545  | 0.005                      | 0.5022  |
| 0.010                       | -0.0786 | 0.010                    | 0.0011  | 0.010                      | 0.2086  |
| 0.020                       | -0.3315 | 0.020                    | -0.2729 | 0.020                      | -0.1412 |
| 0.040                       | -0.5921 | 0.040                    | -0.4544 | 0.040                      | -0.3332 |
| 0.060                       | -0.6032 | 0.060                    | -0.4928 | 0.060                      | -0.4370 |
| 0.080                       | -0.6624 | 0.080                    | -0.5806 | 0.080                      | -0.4678 |
| 0.100                       | -0.7260 | 0.100                    | -0.7120 | 0.100                      | -0.5621 |
| 0.125                       | -0.6466 | 0.125                    | -0.5680 | 0.125                      | -0.5948 |
| 0.150                       | -0.7608 | 0.150                    | -0.6456 | 0.150                      | -0.5033 |
| 0.175                       | -0.7500 | 0.175                    | -0.6943 | 0.175                      | -0.5838 |
| 0.200                       | -0.8291 | 0.200                    | -0.7028 | 0.200                      | -0.6496 |
| 0.250                       | -0.9176 | 0.250                    | -0.8165 | 0.250                      | -0.7464 |
| 0.300                       | -0.9959 | 0.300                    | -0.8934 | 0.300                      | -0.7829 |
| 0.350                       | -0.9921 | 0.350                    | -0.9331 | 0.350                      | -0.8239 |
| 0.400                       | -1.0006 | 0.400                    | -1.0239 | 0.400                      | -0.9088 |
| 0.450                       | -0.9999 | 0.450                    | -1.0473 | 0.450                      | -0.9623 |
| 0.500                       | -0.9421 | 0.500                    | -0.8811 | 0.500                      | -0.9895 |
| 0.550                       | -0.4448 | 0.550                    | -0.4677 | 0.550                      | -0.6988 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4925 | 0.005 | 0.5025 | 0.005 | 0.4387 |
| 0.010 | 0.2435 | 0.010 | 0.1849 | 0.010 | 0.0624 |



Flight 2? test point 32

Sweep, deg = 20.0 Mach = 0.76 hp, ft = 34800. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 200.8 Rrho = 1870000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9816  | 0.000                    | 1.0272  | 0.000                      | 1.0156  |
| 0.005                       | 0.2821  | 0.005                    | 0.3388  | 0.005                      | 0.5868  |
| 0.010                       | 0.0078  | 0.010                    | 0.0937  | 0.010                      | 0.3031  |
| 0.020                       | -0.2419 | 0.020                    | -0.1803 | 0.020                      | -0.0373 |
| 0.040                       | -0.4539 | 0.040                    | -0.3653 | 0.040                      | -0.2357 |
| 0.060                       | -0.5340 | 0.060                    | -0.4306 | 0.060                      | -0.3449 |
| 0.080                       | -0.5753 | 0.080                    | -0.4873 | 0.080                      | -0.3964 |
| 0.100                       | -0.6014 | 0.100                    | -0.5075 | 0.100                      | -0.4349 |
| 0.125                       | -0.5807 | 0.125                    | -0.5212 | 0.125                      | -0.4510 |
| 0.150                       | -0.6864 | 0.150                    | -0.5710 | 0.150                      | -0.5025 |
| 0.175                       | -0.7005 | 0.175                    | -0.6237 | 0.175                      | -0.5419 |
| 0.200                       | -0.7261 | 0.200                    | -0.6544 | 0.200                      | -0.5408 |
| 0.250                       | -0.8170 | 0.250                    | -0.8465 | 0.250                      | -0.6052 |
| 0.300                       | -0.7792 | 0.300                    | -0.7966 | 0.300                      | -0.6583 |
| 0.350                       | -0.7507 | 0.350                    | -0.8148 | 0.350                      | -0.6851 |
| 0.400                       | -0.6045 | 0.400                    | -0.6550 | 0.400                      | -0.5951 |
| 0.450                       | -0.5373 | 0.450                    | -0.5514 | 0.450                      | -0.5601 |
| 0.500                       | -0.4960 | 0.500                    | -0.5628 | 0.500                      | -0.4879 |
| 0.550                       | -0.4252 | 0.550                    | -0.5185 | 0.550                      | -0.4351 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3415 | 0.005 | 0.3572 | 0.005 | 0.2686  |
| 0.010 | 0.0688 | 0.010 | 0.0114 | 0.010 | -0.1469 |

Flight 23 Test point 33

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 34100. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 204.9 Rnpu = 1910000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9776  | 0.000                    | 1.0286  | 0.000                      | 1.0154  |
| 0.005                       | 0.1544  | 0.005                    | 0.2166  | 0.005                      | 0.4896  |
| 0.010                       | -0.1164 | 0.010                    | -0.0401 | 0.010                      | 0.1862  |
| 0.020                       | -0.3735 | 0.020                    | -0.3109 | 0.020                      | -0.1673 |
| 0.040                       | -0.5775 | 0.040                    | -0.4809 | 0.040                      | -0.3548 |
| 0.060                       | -0.6427 | 0.060                    | -0.5376 | 0.060                      | -0.4494 |
| 0.080                       | -0.6966 | 0.080                    | -0.6006 | 0.080                      | -0.4938 |
| 0.100                       | -0.6734 | 0.100                    | -0.6034 | 0.100                      | -0.5264 |
| 0.125                       | -0.6655 | 0.125                    | -0.6022 | 0.125                      | -0.5277 |
| 0.150                       | -0.7197 | 0.150                    | -0.6506 | 0.150                      | -0.5796 |
| 0.175                       | -0.7390 | 0.175                    | -0.7261 | 0.175                      | -0.6381 |
| 0.200                       | -0.8329 | 0.200                    | -0.7051 | 0.200                      | -0.6191 |
| 0.250                       | -0.9037 | 0.250                    | -0.8935 | 0.250                      | -0.6564 |
| 0.300                       | -0.9245 | 0.300                    | -0.8903 | 0.300                      | -0.7098 |
| 0.350                       | -0.7137 | 0.350                    | -0.9022 | 0.350                      | -0.7838 |
| 0.400                       | -0.6178 | 0.400                    | -0.8320 | 0.400                      | -0.5787 |
| 0.450                       | -0.5394 | 0.450                    | -0.5220 | 0.450                      | -0.5584 |
| 0.500                       | -0.5076 | 0.500                    | -0.5625 | 0.500                      | -0.4968 |
| 0.550                       | -0.4264 | 0.550                    | -0.5245 | 0.550                      | -0.4445 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4505 | 0.005 | 0.4664 | 0.005 | 0.3944 |
| 0.010 | 0.1861 | 0.010 | 0.1448 | 0.010 | 0.0010 |

Flight 23 Test point 34

Sweep, deg = 25.1 Mach = 0.75 hp, ft = 35800. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 189.2 Rnpu = 1775000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9034  | 0.000                    | 0.9580  | 0.000                      | 0.9394  |
| 0.005                       | 0.2527  | 0.005                    | 0.2956  | 0.005                      | 0.5361  |
| 0.010                       | -0.0021 | 0.010                    | 0.0676  | 0.010                      | 0.2681  |
| 0.020                       | -0.2351 | 0.020                    | -0.1852 | 0.020                      | -0.0501 |
| 0.040                       | -0.4226 | 0.040                    | -0.3470 | 0.040                      | -0.2295 |
| 0.060                       | -0.4933 | 0.060                    | -0.4039 | 0.060                      | -0.3286 |
| 0.080                       | -0.5213 | 0.080                    | -0.4538 | 0.080                      | -0.3734 |
| 0.100                       | -0.5402 | 0.100                    | -0.4678 | 0.100                      | -0.4015 |
| 0.125                       | -0.5138 | 0.125                    | -0.4776 | 0.125                      | -0.4172 |
| 0.150                       | -0.6037 | 0.150                    | -0.5286 | 0.150                      | -0.4534 |
| 0.175                       | -0.5912 | 0.175                    | -0.5775 | 0.175                      | -0.4867 |
| 0.200                       | -0.6718 | 0.200                    | -0.6170 | 0.200                      | -0.4792 |
| 0.250                       | -0.6767 | 0.250                    | -0.6837 | 0.250                      | -0.5427 |
| 0.300                       | -0.6621 | 0.300                    | -0.6747 | 0.300                      | -0.5471 |
| 0.350                       | -0.6260 | 0.350                    | -0.6083 | 0.350                      | -0.5631 |
| 0.400                       | -0.5610 | 0.400                    | -0.6109 | 0.400                      | -0.5316 |
| 0.450                       | -0.4951 | 0.450                    | -0.5232 | 0.450                      | -0.5005 |
| 0.500                       | -0.4694 | 0.500                    | -0.5171 | 0.500                      | -0.4484 |
| 0.550                       | -0.3983 | 0.550                    | -0.4842 | 0.550                      | -0.4177 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2863 | 0.005 | 0.3126  | 0.005 | 0.2257  |
| 0.010 | 0.0273 | 0.010 | -0.0194 | 0.010 | -0.1697 |

Fight 23 Test point 35

Sweep, deg = 25.2 Mach = 0.75 hp, ft = 35500. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 193.2 R<sub>hpu</sub> = 1813000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8998  | 0.000                    | 0.9458  | 0.000                      | 0.9388  |
| 0.005                       | 0.0717  | 0.005                    | 0.1138  | 0.005                      | 0.3861  |
| 0.010                       | -0.1906 | 0.010                    | -0.1221 | 0.010                      | 0.0880  |
| 0.020                       | -0.4251 | 0.020                    | -0.3823 | 0.020                      | -0.2377 |
| 0.040                       | -0.6061 | 0.040                    | -0.5278 | 0.040                      | -0.4097 |
| 0.060                       | -0.6577 | 0.060                    | -0.5777 | 0.060                      | -0.4962 |
| 0.080                       | -0.6845 | 0.080                    | -0.6212 | 0.080                      | -0.5360 |
| 0.100                       | -0.6710 | 0.100                    | -0.6193 | 0.100                      | -0.5548 |
| 0.125                       | -0.6736 | 0.125                    | -0.6002 | 0.125                      | -0.5448 |
| 0.150                       | -0.7244 | 0.150                    | -0.6379 | 0.150                      | -0.6012 |
| 0.175                       | -0.7416 | 0.175                    | -0.7048 | 0.175                      | -0.6416 |
| 0.200                       | -0.7642 | 0.200                    | -0.6974 | 0.200                      | -0.5956 |
| 0.250                       | -0.8088 | 0.250                    | -0.8832 | 0.250                      | -0.6468 |
| 0.300                       | -0.7756 | 0.300                    | -0.8138 | 0.300                      | -0.6748 |
| 0.350                       | -0.7110 | 0.350                    | -0.7755 | 0.350                      | -0.6226 |
| 0.400                       | -0.5961 | 0.400                    | -0.6306 | 0.400                      | -0.5776 |
| 0.450                       | -0.5266 | 0.450                    | -0.5665 | 0.450                      | -0.5296 |
| 0.500                       | -0.4925 | 0.500                    | -0.5430 | 0.500                      | -0.4729 |
| 0.550                       | -0.4113 | 0.550                    | -0.5020 | 0.550                      | -0.4350 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4458 | 0.005 | 0.4771 | 0.005 | 0.4123 |
| 0.010 | 0.2090 | 0.010 | 0.1852 | 0.010 | 0.0552 |

Flight 23 Test point 36

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 37700. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 174.8 Rnpu = 1738000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9581  | 0.000                    | 1.0122  | 0.000                      | 0.9993  |
| 0.005                       | 0.0954  | 0.005                    | 0.1711  | 0.005                      | 0.4693  |
| 0.010                       | -0.1737 | 0.010                    | -0.0841 | 0.010                      | 0.1632  |
| 0.020                       | -0.4224 | 0.020                    | -0.3476 | 0.020                      | -0.1812 |
| 0.040                       | -0.5925 | 0.040                    | -0.4973 | 0.040                      | -0.3484 |
| 0.060                       | -0.6420 | 0.060                    | -0.5316 | 0.060                      | -0.4347 |
| 0.080                       | -0.6599 | 0.080                    | -0.5706 | 0.080                      | -0.4555 |
| 0.100                       | -0.6586 | 0.100                    | -0.5645 | 0.100                      | -0.4782 |
| 0.125                       | -0.5997 | 0.125                    | -0.5688 | 0.125                      | -0.4871 |
| 0.150                       | -0.6937 | 0.150                    | -0.6132 | 0.150                      | -0.5131 |
| 0.175                       | -0.6751 | 0.175                    | -0.6484 | 0.175                      | -0.5339 |
| 0.200                       | -0.7328 | 0.200                    | -0.6572 | 0.200                      | -0.5351 |
| 0.250                       | -0.7171 | 0.250                    | -0.7199 | 0.250                      | -0.5740 |
| 0.300                       | -0.6924 | 0.300                    | -0.6922 | 0.300                      | -0.5686 |
| 0.350                       | -0.6398 | 0.350                    | -0.6259 | 0.350                      | -0.5802 |
| 0.400                       | -0.5757 | 0.400                    | -0.6284 | 0.400                      | -0.5442 |
| 0.450                       | -0.5137 | 0.450                    | -0.5461 | 0.450                      | -0.5174 |
| 0.500                       | -0.4795 | 0.500                    | -0.5395 | 0.500                      | -0.4647 |
| 0.550                       | -0.4070 | 0.550                    | -0.4991 | 0.550                      | -0.4303 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4429 | 0.005 | 0.4577 | 0.005 | 0.3639  |
| 0.010 | 0.1922 | 0.010 | 0.1375 | 0.010 | -0.0258 |

Fight 23 Test point 37

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 34800. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 171.8 Rnpu = 1715000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9387  | 0.000                    | 0.9872  | 0.000                      | 0.9919  |
| 0.005                       | -0.0837 | 0.005                    | -0.0121 | 0.005                      | 0.3283  |
| 0.010                       | -0.3642 | 0.010                    | -0.2869 | 0.010                      | -0.0023 |
| 0.020                       | -0.6110 | 0.020                    | -0.5359 | 0.020                      | -0.3562 |
| 0.040                       | -0.7676 | 0.040                    | -0.6796 | 0.040                      | -0.5031 |
| 0.060                       | -0.7922 | 0.060                    | -0.6896 | 0.060                      | -0.5680 |
| 0.080                       | -0.7806 | 0.080                    | -0.6973 | 0.080                      | -0.5777 |
| 0.100                       | -0.7765 | 0.100                    | -0.6819 | 0.100                      | -0.5874 |
| 0.125                       | -0.6899 | 0.125                    | -0.6741 | 0.125                      | -0.5769 |
| 0.150                       | -0.7956 | 0.150                    | -0.7092 | 0.150                      | -0.5970 |
| 0.175                       | -0.7461 | 0.175                    | -0.7419 | 0.175                      | -0.6095 |
| 0.200                       | -0.8184 | 0.200                    | -0.7498 | 0.200                      | -0.6099 |
| 0.250                       | -0.7755 | 0.250                    | -0.7899 | 0.250                      | -0.6414 |
| 0.300                       | -0.7347 | 0.300                    | -0.7439 | 0.300                      | -0.6231 |
| 0.350                       | -0.6718 | 0.350                    | -0.6676 | 0.350                      | -0.6215 |
| 0.400                       | -0.6028 | 0.400                    | -0.6602 | 0.400                      | -0.5665 |
| 0.450                       | -0.5320 | 0.450                    | -0.5770 | 0.450                      | -0.5286 |
| 0.500                       | -0.5055 | 0.500                    | -0.5606 | 0.500                      | -0.4806 |
| 0.550                       | -0.4116 | 0.550                    | -0.5137 | 0.550                      | -0.4454 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5650 | 0.005 | 0.5916 | 0.005 | 0.5096 |
| 0.010 | 0.3311 | 0.010 | 0.3013 | 0.010 | 0.1522 |

Flight 23 Test point 38

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 34400. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 175.7 Rrho = 1749000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8948  | 0.000                    | 0.9471  | 0.000                      | 0.9270  |
| 0.005                       | 0.2169  | 0.005                    | 0.2694  | 0.005                      | 0.5260  |
| 0.010                       | -0.0414 | 0.010                    | 0.0465  | 0.010                      | 0.2550  |
| 0.020                       | -0.2602 | 0.020                    | -0.1973 | 0.020                      | -0.0411 |
| 0.040                       | -0.4257 | 0.040                    | -0.3394 | 0.040                      | -0.2219 |
| 0.060                       | -0.4836 | 0.060                    | -0.3885 | 0.060                      | -0.3078 |
| 0.080                       | -0.5064 | 0.080                    | -0.4279 | 0.080                      | -0.3363 |
| 0.100                       | -0.5089 | 0.100                    | -0.4415 | 0.100                      | -0.3600 |
| 0.125                       | -0.4801 | 0.125                    | -0.4451 | 0.125                      | -0.3766 |
| 0.150                       | -0.5506 | 0.150                    | -0.4843 | 0.150                      | -0.4073 |
| 0.175                       | -0.5405 | 0.175                    | -0.5158 | 0.175                      | -0.4249 |
| 0.200                       | -0.5954 | 0.200                    | -0.5282 | 0.200                      | -0.4229 |
| 0.250                       | -0.5873 | 0.250                    | -0.5835 | 0.250                      | -0.4662 |
| 0.300                       | -0.5793 | 0.300                    | -0.5676 | 0.300                      | -0.4619 |
| 0.350                       | -0.5461 | 0.350                    | -0.5291 | 0.350                      | -0.4830 |
| 0.400                       | -0.5003 | 0.400                    | -0.5370 | 0.400                      | -0.4671 |
| 0.450                       | -0.4449 | 0.450                    | -0.4737 | 0.450                      | -0.4473 |
| 0.500                       | -0.4255 | 0.500                    | -0.4744 | 0.500                      | -0.4123 |
| 0.550                       | -0.3712 | 0.550                    | -0.4504 | 0.550                      | -0.4035 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2811 | 0.005 | 0.2960  | 0.005 | 0.1916  |
| 0.010 | 0.0315 | 0.010 | -0.0183 | 0.010 | -0.1987 |

Fight 23 Test Point 39

Sweep, deg = 25.1 Mach = 0.70 hp, ft = 33900. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 178.0 Rnpu = 1772000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8832  | 0.000                    | 0.9300  | 0.000                      | 0.9253  |
| 0.005                       | 0.0105  | 0.005                    | 0.0663  | 0.005                      | 0.3638  |
| 0.010                       | -0.2363 | 0.010                    | -0.1691 | 0.010                      | 0.0704  |
| 0.020                       | -0.4622 | 0.020                    | -0.4089 | 0.020                      | -0.2449 |
| 0.040                       | -0.6011 | 0.040                    | -0.5185 | 0.040                      | -0.3863 |
| 0.060                       | -0.6270 | 0.060                    | -0.5375 | 0.060                      | -0.4555 |
| 0.080                       | -0.6320 | 0.080                    | -0.5643 | 0.080                      | -0.4706 |
| 0.100                       | -0.6267 | 0.100                    | -0.5606 | 0.100                      | -0.4757 |
| 0.125                       | -0.5662 | 0.125                    | -0.5567 | 0.125                      | -0.4800 |
| 0.150                       | -0.6445 | 0.150                    | -0.5860 | 0.150                      | -0.4995 |
| 0.175                       | -0.6227 | 0.175                    | -0.6052 | 0.175                      | -0.5176 |
| 0.200                       | -0.6757 | 0.200                    | -0.6182 | 0.200                      | -0.5054 |
| 0.250                       | -0.6581 | 0.250                    | -0.6574 | 0.250                      | -0.5396 |
| 0.300                       | -0.6299 | 0.300                    | -0.6307 | 0.300                      | -0.5177 |
| 0.350                       | -0.5867 | 0.350                    | -0.5818 | 0.350                      | -0.5283 |
| 0.400                       | -0.5351 | 0.400                    | -0.5727 | 0.400                      | -0.4999 |
| 0.450                       | -0.4745 | 0.450                    | -0.5045 | 0.450                      | -0.4740 |
| 0.500                       | -0.4523 | 0.500                    | -0.5027 | 0.500                      | -0.4320 |
| 0.550                       | -0.3864 | 0.550                    | -0.4778 | 0.550                      | -0.4198 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.4371 | 0.005 | 0.4639 | 0.005 | 0.3804 |
| 0.010         | 0.1965 | 0.010 | 0.1751 | 0.010 | 0.0262 |



Fight 23 Test point 40

Sweep, deg = 30.4 Mach = 0.71 hp, ft = 34900. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 175.2 Rnpu = 1733000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7995  | 0.000                    | 0.8510  | 0.000                      | 0.8398  |
| 0.005                       | 0.1602  | 0.005                    | 0.2010  | 0.005                      | 0.4465  |
| 0.010                       | -0.0646 | 0.010                    | -0.0001 | 0.010                      | 0.1949  |
| 0.020                       | -0.2657 | 0.020                    | -0.2213 | 0.020                      | -0.0828 |
| 0.040                       | -0.4078 | 0.040                    | -0.3490 | 0.040                      | -0.2330 |
| 0.060                       | -0.4426 | 0.060                    | -0.3796 | 0.060                      | -0.3079 |
| 0.080                       | -0.4735 | 0.080                    | -0.4046 | 0.080                      | -0.3323 |
| 0.100                       | -0.4685 | 0.100                    | -0.4138 | 0.100                      | -0.3557 |
| 0.125                       | -0.4414 | 0.125                    | -0.4134 | 0.125                      | -0.3522 |
| 0.150                       | -0.5005 | 0.150                    | -0.4515 | 0.150                      | -0.3840 |
| 0.175                       | -0.4967 | 0.175                    | -0.4716 | 0.175                      | -0.4050 |
| 0.200                       | -0.5405 | 0.200                    | -0.4872 | 0.200                      | -0.3985 |
| 0.250                       | -0.5446 | 0.250                    | -0.5319 | 0.250                      | -0.4445 |
| 0.300                       | -0.5212 | 0.300                    | -0.5151 | 0.300                      | -0.4270 |
| 0.350                       | -0.4980 | 0.350                    | -0.4710 | 0.350                      | -0.4338 |
| 0.400                       | -0.4546 | 0.400                    | -0.4813 | 0.400                      | -0.4191 |
| 0.450                       | -0.4069 | 0.450                    | -0.4301 | 0.450                      | -0.4028 |
| 0.500                       | -0.3971 | 0.500                    | -0.4311 | 0.500                      | -0.3759 |
| 0.550                       | -0.3458 | 0.550                    | -0.4147 | 0.550                      | -0.3661 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2484 | 0.005 | 0.2793  | 0.005 | 0.1944  |
| 0.010 | 0.0210 | 0.010 | -0.0097 | 0.010 | -0.1552 |

Flight 23 Test point 41

Sweep, deg = 30.4 Mach = 0.70 hp, ft = 34000. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 178.4 Rnpu = 1772000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8026  | 0.000                    | 0.8443  | 0.000                      | 0.8334  |
| 0.005                       | 0.1746  | 0.005                    | 0.2129  | 0.005                      | 0.4527  |
| 0.010                       | -0.0548 | 0.010                    | 0.0147  | 0.010                      | 0.2036  |
| 0.020                       | -0.2519 | 0.020                    | -0.2087 | 0.020                      | -0.0722 |
| 0.040                       | -0.3958 | 0.040                    | -0.3353 | 0.040                      | -0.2258 |
| 0.060                       | -0.4317 | 0.060                    | -0.3641 | 0.060                      | -0.2988 |
| 0.080                       | -0.4538 | 0.080                    | -0.3924 | 0.080                      | -0.3234 |
| 0.100                       | -0.4536 | 0.100                    | -0.3978 | 0.100                      | -0.3429 |
| 0.125                       | -0.4321 | 0.125                    | -0.4038 | 0.125                      | -0.3436 |
| 0.150                       | -0.4879 | 0.150                    | -0.4404 | 0.150                      | -0.3694 |
| 0.175                       | -0.4845 | 0.175                    | -0.4605 | 0.175                      | -0.3961 |
| 0.200                       | -0.5273 | 0.200                    | -0.4700 | 0.200                      | -0.3869 |
| 0.250                       | -0.5282 | 0.250                    | -0.5201 | 0.250                      | -0.4260 |
| 0.300                       | -0.5060 | 0.300                    | -0.5023 | 0.300                      | -0.4052 |
| 0.350                       | -0.4855 | 0.350                    | -0.4575 | 0.350                      | -0.4265 |
| 0.400                       | -0.4456 | 0.400                    | -0.4718 | 0.400                      | -0.4112 |
| 0.450                       | -0.3958 | 0.450                    | -0.4219 | 0.450                      | -0.3992 |
| 0.500                       | -0.3900 | 0.500                    | -0.4198 | 0.500                      | -0.3731 |
| 0.550                       | -0.3351 | 0.550                    | -0.4068 | 0.550                      | -0.3748 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2360 | 0.005 | 0.2752  | 0.005 | 0.1753  |
| 0.010 | 0.0210 | 0.010 | -0.0316 | 0.010 | -0.1721 |

Fight Z3 Test point 42

Sweep, deg = 30.4 Mach = 0.70 hp, ft = 34200. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 177.1 Rnpu = 1761000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7863  | 0.000                    | 0.8214  | 0.000                      | 0.8215  |
| 0.005                       | -0.0550 | 0.005                    | -0.0194 | 0.005                      | 0.2643  |
| 0.010                       | -0.2902 | 0.010                    | -0.2313 | 0.010                      | -0.0176 |
| 0.020                       | -0.4744 | 0.020                    | -0.4370 | 0.020                      | -0.2986 |
| 0.040                       | -0.5850 | 0.040                    | -0.5339 | 0.040                      | -0.4153 |
| 0.060                       | -0.5915 | 0.060                    | -0.5322 | 0.060                      | -0.4636 |
| 0.080                       | -0.5935 | 0.080                    | -0.5467 | 0.080                      | -0.4670 |
| 0.100                       | -0.5824 | 0.100                    | -0.5303 | 0.100                      | -0.4702 |
| 0.125                       | -0.5335 | 0.125                    | -0.5225 | 0.125                      | -0.4583 |
| 0.150                       | -0.5931 | 0.150                    | -0.5488 | 0.150                      | -0.4751 |
| 0.175                       | -0.5695 | 0.175                    | -0.5633 | 0.175                      | -0.4957 |
| 0.200                       | -0.6255 | 0.200                    | -0.5672 | 0.200                      | -0.4723 |
| 0.250                       | -0.6010 | 0.250                    | -0.6062 | 0.250                      | -0.5009 |
| 0.300                       | -0.5790 | 0.300                    | -0.5740 | 0.300                      | -0.4810 |
| 0.350                       | -0.5342 | 0.350                    | -0.5217 | 0.350                      | -0.4793 |
| 0.400                       | -0.4909 | 0.400                    | -0.5186 | 0.400                      | -0.4591 |
| 0.450                       | -0.4302 | 0.450                    | -0.4639 | 0.450                      | -0.4354 |
| 0.500                       | -0.4231 | 0.500                    | -0.4626 | 0.500                      | -0.4038 |
| 0.550                       | -0.3655 | 0.550                    | -0.4387 | 0.550                      | -0.3979 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4171 | 0.005 | 0.4538 | 0.005 | 0.3810 |
| 0.010 | 0.2030 | 0.010 | 0.2001 | 0.010 | 0.0766 |

Fight 23 Test point 43

Sweep, deg = 34.8 Mach = 0.69 hp, ft = 35800. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 161.2 Rnpu = 1633000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7286  | 0.000                    | 0.7738  | 0.000                      | 0.7599  |
| 0.005                       | 0.1214  | 0.005                    | 0.1438  | 0.005                      | 0.3808  |
| 0.010                       | -0.0847 | 0.010                    | -0.0347 | 0.010                      | 0.1499  |
| 0.020                       | -0.2594 | 0.020                    | -0.2248 | 0.020                      | -0.1013 |
| 0.040                       | -0.3717 | 0.040                    | -0.3342 | 0.040                      | -0.2254 |
| 0.060                       | -0.4075 | 0.060                    | -0.3486 | 0.060                      | -0.2918 |
| 0.080                       | -0.4189 | 0.080                    | -0.3774 | 0.080                      | -0.3046 |
| 0.100                       | -0.4222 | 0.100                    | -0.3642 | 0.100                      | -0.3178 |
| 0.125                       | -0.3968 | 0.125                    | -0.3667 | 0.125                      | -0.3152 |
| 0.150                       | -0.4429 | 0.150                    | -0.4015 | 0.150                      | -0.3359 |
| 0.175                       | -0.4323 | 0.175                    | -0.4120 | 0.175                      | -0.3585 |
| 0.200                       | -0.4761 | 0.200                    | -0.4292 | 0.200                      | -0.3410 |
| 0.250                       | -0.4756 | 0.250                    | -0.4596 | 0.250                      | -0.3786 |
| 0.300                       | -0.4516 | 0.300                    | -0.4440 | 0.300                      | -0.3770 |
| 0.350                       | -0.4370 | 0.350                    | -0.4046 | 0.350                      | -0.3795 |
| 0.400                       | -0.3998 | 0.400                    | -0.4150 | 0.400                      | -0.3618 |
| 0.450                       | -0.3621 | 0.450                    | -0.3760 | 0.450                      | -0.3568 |
| 0.500                       | -0.3438 | 0.500                    | -0.3834 | 0.500                      | -0.3312 |
| 0.550                       | -0.3002 | 0.550                    | -0.3671 | 0.550                      | -0.3373 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.2260 | 0.005 | 0.2718 | 0.005 | 0.1818  |
| 0.010 | 0.0205 | 0.010 | 0.0118 | 0.010 | -0.1175 |

Flight 23 Test point 44

Sweep, deg = 34.7 Mach = 0.70 hp, ft = 35500. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 168.9 Rnpu = 1687000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7110  | 0.000                    | 0.7505  | 0.000                      | 0.7461  |
| 0.005                       | -0.0495 | 0.005                    | -0.0296 | 0.005                      | 0.2400  |
| 0.010                       | -0.2596 | 0.010                    | -0.2163 | 0.010                      | -0.0248 |
| 0.020                       | -0.4278 | 0.020                    | -0.3935 | 0.020                      | -0.2682 |
| 0.040                       | -0.5189 | 0.040                    | -0.4789 | 0.040                      | -0.3746 |
| 0.060                       | -0.5256 | 0.060                    | -0.4713 | 0.060                      | -0.4101 |
| 0.080                       | -0.5284 | 0.080                    | -0.4798 | 0.080                      | -0.4214 |
| 0.100                       | -0.5249 | 0.100                    | -0.4795 | 0.100                      | -0.4259 |
| 0.125                       | -0.4717 | 0.125                    | -0.4651 | 0.125                      | -0.4159 |
| 0.150                       | -0.5202 | 0.150                    | -0.4877 | 0.150                      | -0.4233 |
| 0.175                       | -0.5074 | 0.175                    | -0.4916 | 0.175                      | -0.4404 |
| 0.200                       | -0.5459 | 0.200                    | -0.4956 | 0.200                      | -0.4144 |
| 0.250                       | -0.5356 | 0.250                    | -0.5316 | 0.250                      | -0.4476 |
| 0.300                       | -0.5114 | 0.300                    | -0.5023 | 0.300                      | -0.4231 |
| 0.350                       | -0.4802 | 0.350                    | -0.4615 | 0.350                      | -0.4242 |
| 0.400                       | -0.4397 | 0.400                    | -0.4659 | 0.400                      | -0.4102 |
| 0.450                       | -0.3848 | 0.450                    | -0.4155 | 0.450                      | -0.3922 |
| 0.500                       | -0.3841 | 0.500                    | -0.4095 | 0.500                      | -0.3580 |
| 0.550                       | -0.3230 | 0.550                    | -0.3945 | 0.550                      | -0.3618 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3544 | 0.005 | 0.4017 | 0.005 | 0.3405 |
| 0.010 | 0.1575 | 0.010 | 0.1624 | 0.010 | 0.0548 |

Fight 23 Test point 45

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 2.1  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 273.2 Rnpu = 2495000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.6576  | 0.000                    | 0.6810  | 0.000                      | 0.6945  |
| 0.005                       | -0.2831 | 0.005                    | -0.2647 | 0.005                      | 0.0416  |
| 0.010                       | -0.4940 | 0.010                    | -0.4522 | 0.010                      | -0.2297 |
| 0.020                       | -0.6493 | 0.020                    | -0.6306 | 0.020                      | -0.4892 |
| 0.040                       | -0.7088 | 0.040                    | -0.6631 | 0.040                      | -0.5521 |
| 0.060                       | -0.6875 | 0.060                    | -0.6448 | 0.060                      | -0.5750 |
| 0.080                       | -0.6725 | 0.080                    | -0.6366 | 0.080                      | -0.5660 |
| 0.100                       | -0.6486 | 0.100                    | -0.6155 | 0.100                      | -0.5526 |
| 0.125                       | -0.5742 | 0.125                    | -0.5903 | 0.125                      | -0.5286 |
| 0.150                       | -0.6249 | 0.150                    | -0.5995 | 0.150                      | -0.5239 |
| 0.175                       | -0.5983 | 0.175                    | -0.6035 | 0.175                      | -0.5317 |
| 0.200                       | -0.6302 | 0.200                    | -0.6003 | 0.200                      | -0.5147 |
| 0.250                       | -0.6134 | 0.250                    | -0.6127 | 0.250                      | -0.5235 |
| 0.300                       | -0.5828 | 0.300                    | -0.5825 | 0.300                      | -0.5017 |
| 0.350                       | -0.5406 | 0.350                    | -0.5304 | 0.350                      | -0.4919 |
| 0.400                       | -0.4888 | 0.400                    | -0.5164 | 0.400                      | -0.4624 |
| 0.450                       | -0.4399 | 0.450                    | -0.4675 | 0.450                      | -0.4380 |
| 0.500                       | -0.4166 | 0.500                    | -0.4493 | 0.500                      | -0.4024 |
| 0.550                       | -0.3610 | 0.550                    | -0.4328 | 0.550                      | -0.3999 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4817 | 0.005 | 0.5166 | 0.005 | 0.4669 |
| 0.010 | 0.3055 | 0.010 | 0.3052 | 0.010 | 0.2281 |

Fight 23 Test point 46

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 24700. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 273.3 Rnpu = 2504000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7107  | 0.000                    | 0.7440  | 0.000                      | 0.7406  |
| 0.005                       | 0.0304  | 0.005                    | 0.0679  | 0.005                      | 0.3144  |
| 0.010                       | -0.1737 | 0.010                    | -0.1248 | 0.010                      | 0.0713  |
| 0.020                       | -0.3512 | 0.020                    | -0.3110 | 0.020                      | -0.1828 |
| 0.040                       | -0.4384 | 0.040                    | -0.3935 | 0.040                      | -0.2985 |
| 0.060                       | -0.4683 | 0.060                    | -0.4194 | 0.060                      | -0.3543 |
| 0.080                       | -0.4819 | 0.080                    | -0.4403 | 0.080                      | -0.3631 |
| 0.100                       | -0.4834 | 0.100                    | -0.4393 | 0.100                      | -0.3726 |
| 0.125                       | -0.4457 | 0.125                    | -0.4334 | 0.125                      | -0.3722 |
| 0.150                       | -0.4918 | 0.150                    | -0.4534 | 0.150                      | -0.3866 |
| 0.175                       | -0.4834 | 0.175                    | -0.4704 | 0.175                      | -0.4049 |
| 0.200                       | -0.5188 | 0.200                    | -0.4798 | 0.200                      | -0.3972 |
| 0.250                       | -0.5110 | 0.250                    | -0.5062 | 0.250                      | -0.4258 |
| 0.300                       | -0.4967 | 0.300                    | -0.4868 | 0.300                      | -0.4166 |
| 0.350                       | -0.4710 | 0.350                    | -0.4544 | 0.350                      | -0.4193 |
| 0.400                       | -0.4316 | 0.400                    | -0.4568 | 0.400                      | -0.4019 |
| 0.450                       | -0.3880 | 0.450                    | -0.4155 | 0.450                      | -0.3828 |
| 0.500                       | -0.3758 | 0.500                    | -0.4114 | 0.500                      | -0.3683 |
| 0.550                       | -0.3358 | 0.550                    | -0.4029 | 0.550                      | -0.3737 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.2838 | 0.005 | 0.3058 | 0.005 | 0.2244  |
| 0.010 | 0.0804 | 0.010 | 0.0602 | 0.010 | -0.0690 |

Flight 23 Test point 47

Sweep, deg = 34.9 Mach = 0.71 hp, ft = 24400. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 280.2 Rnpu = 2548000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.6883  | 0.000                    | 0.7119  | 0.000                      | 0.7186  |
| 0.005                       | -0.1634 | 0.005                    | -0.1373 | 0.005                      | 0.1450  |
| 0.010                       | -0.3772 | 0.010                    | -0.3282 | 0.010                      | -0.1127 |
| 0.020                       | -0.5434 | 0.020                    | -0.5193 | 0.020                      | -0.3751 |
| 0.040                       | -0.6161 | 0.040                    | -0.5695 | 0.040                      | -0.4586 |
| 0.060                       | -0.6094 | 0.060                    | -0.5664 | 0.060                      | -0.4919 |
| 0.080                       | -0.6055 | 0.080                    | -0.5697 | 0.080                      | -0.4963 |
| 0.100                       | -0.5952 | 0.100                    | -0.5502 | 0.100                      | -0.4939 |
| 0.125                       | -0.5337 | 0.125                    | -0.5368 | 0.125                      | -0.4753 |
| 0.150                       | -0.5802 | 0.150                    | -0.5519 | 0.150                      | -0.4785 |
| 0.175                       | -0.5586 | 0.175                    | -0.5633 | 0.175                      | -0.4890 |
| 0.200                       | -0.5936 | 0.200                    | -0.5609 | 0.200                      | -0.4739 |
| 0.250                       | -0.5803 | 0.250                    | -0.5795 | 0.250                      | -0.4929 |
| 0.300                       | -0.5573 | 0.300                    | -0.5510 | 0.300                      | -0.4766 |
| 0.350                       | -0.5168 | 0.350                    | -0.5081 | 0.350                      | -0.4720 |
| 0.400                       | -0.4753 | 0.400                    | -0.5006 | 0.400                      | -0.4491 |
| 0.450                       | -0.4250 | 0.450                    | -0.4565 | 0.450                      | -0.4219 |
| 0.500                       | -0.4056 | 0.500                    | -0.4361 | 0.500                      | -0.3919 |
| 0.550                       | -0.3546 | 0.550                    | -0.4274 | 0.550                      | -0.3952 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4245 | 0.005 | 0.4511 | 0.005 | 0.3934 |
| 0.010 | 0.2382 | 0.010 | 0.2309 | 0.010 | 0.1367 |



Flight 23 Test point 48

Sweep, deg = 30.0 Mach = 0.71 hp, ft = 24900. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 275.4 Rnpu = 2507000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7593  | 0.000                    | 0.7870  | 0.000                      | 0.8056  |
| 0.005                       | -0.2182 | 0.005                    | -0.1798 | 0.005                      | 0.1333  |
| 0.010                       | -0.4586 | 0.010                    | -0.4111 | 0.010                      | -0.1614 |
| 0.020                       | -0.6579 | 0.020                    | -0.6153 | 0.020                      | -0.4742 |
| 0.040                       | -0.7469 | 0.040                    | -0.6803 | 0.040                      | -0.5659 |
| 0.060                       | -0.7345 | 0.060                    | -0.6819 | 0.060                      | -0.6014 |
| 0.080                       | -0.7216 | 0.080                    | -0.6793 | 0.080                      | -0.6014 |
| 0.100                       | -0.7111 | 0.100                    | -0.6574 | 0.100                      | -0.5937 |
| 0.125                       | -0.6292 | 0.125                    | -0.6391 | 0.125                      | -0.5640 |
| 0.150                       | -0.6942 | 0.150                    | -0.6600 | 0.150                      | -0.5676 |
| 0.175                       | -0.6604 | 0.175                    | -0.6703 | 0.175                      | -0.5862 |
| 0.200                       | -0.6997 | 0.200                    | -0.6705 | 0.200                      | -0.5648 |
| 0.250                       | -0.6824 | 0.250                    | -0.6913 | 0.250                      | -0.5823 |
| 0.300                       | -0.6548 | 0.300                    | -0.6553 | 0.300                      | -0.5561 |
| 0.350                       | -0.5987 | 0.350                    | -0.6036 | 0.350                      | -0.5507 |
| 0.400                       | -0.5458 | 0.400                    | -0.5824 | 0.400                      | -0.5210 |
| 0.450                       | -0.4841 | 0.450                    | -0.5219 | 0.450                      | -0.4870 |
| 0.500                       | -0.4603 | 0.500                    | -0.4969 | 0.500                      | -0.4464 |
| 0.550                       | -0.3985 | 0.550                    | -0.4817 | 0.550                      | -0.4356 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.5103 | 0.005 | 0.5385 | 0.005 | 0.4810 |
| 0.010         | 0.3118 | 0.010 | 0.3016 | 0.010 | 0.1925 |

Flight 23 Test point 49

Sweep, deg = 29.8 Mach = 0.71 hp, ft = 24500. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 279.1 Rnpu = 2535000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8031  | 0.000                    | 0.8415  | 0.000                      | 0.8337  |
| 0.005                       | 0.0701  | 0.005                    | 0.1170  | 0.005                      | 0.3751  |
| 0.010                       | -0.1623 | 0.010                    | -0.1059 | 0.010                      | 0.1146  |
| 0.020                       | -0.3672 | 0.020                    | -0.3252 | 0.020                      | -0.1795 |
| 0.040                       | -0.4981 | 0.040                    | -0.4329 | 0.040                      | -0.3197 |
| 0.060                       | -0.5178 | 0.060                    | -0.4546 | 0.060                      | -0.3857 |
| 0.080                       | -0.5391 | 0.080                    | -0.4865 | 0.080                      | -0.4106 |
| 0.100                       | -0.5449 | 0.100                    | -0.4886 | 0.100                      | -0.4197 |
| 0.125                       | -0.4990 | 0.125                    | -0.4854 | 0.125                      | -0.4135 |
| 0.150                       | -0.5590 | 0.150                    | -0.5127 | 0.150                      | -0.4297 |
| 0.175                       | -0.5468 | 0.175                    | -0.5358 | 0.175                      | -0.4530 |
| 0.200                       | -0.5899 | 0.200                    | -0.5471 | 0.200                      | -0.4508 |
| 0.250                       | -0.5858 | 0.250                    | -0.5814 | 0.250                      | -0.4818 |
| 0.300                       | -0.5705 | 0.300                    | -0.5649 | 0.300                      | -0.4782 |
| 0.350                       | -0.5338 | 0.350                    | -0.5259 | 0.350                      | -0.4812 |
| 0.400                       | -0.4890 | 0.400                    | -0.5225 | 0.400                      | -0.4603 |
| 0.450                       | -0.4404 | 0.450                    | -0.4744 | 0.450                      | -0.4420 |
| 0.500                       | -0.4265 | 0.500                    | -0.4635 | 0.500                      | -0.4097 |
| 0.550                       | -0.3708 | 0.550                    | -0.4505 | 0.550                      | -0.4066 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3310 | 0.005 | 0.3396 | 0.005 | 0.2548  |
| 0.010 | 0.1010 | 0.010 | 0.0622 | 0.010 | -0.0931 |

Flight 23 Test point 50

Sweep, deg = -29.7 Mach = 0.71 hp, ft = 25200. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 272.3 Rnpu = 2485000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7793  | 0.000                    | 0.8166  | 0.000                      | 0.8146  |
| 0.005                       | -0.1154 | 0.005                    | -0.0758 | 0.005                      | 0.2193  |
| 0.010                       | -0.3567 | 0.010                    | -0.3051 | 0.010                      | -0.0654 |
| 0.020                       | -0.5547 | 0.020                    | -0.5153 | 0.020                      | -0.3691 |
| 0.040                       | -0.6591 | 0.040                    | -0.5895 | 0.040                      | -0.4813 |
| 0.060                       | -0.6570 | 0.060                    | -0.5947 | 0.060                      | -0.5267 |
| 0.080                       | -0.6547 | 0.080                    | -0.6135 | 0.080                      | -0.5306 |
| 0.100                       | -0.6526 | 0.100                    | -0.5971 | 0.100                      | -0.5256 |
| 0.125                       | -0.5804 | 0.125                    | -0.5818 | 0.125                      | -0.5051 |
| 0.150                       | -0.6426 | 0.150                    | -0.6034 | 0.150                      | -0.5158 |
| 0.175                       | -0.6213 | 0.175                    | -0.6226 | 0.175                      | -0.5383 |
| 0.200                       | -0.6630 | 0.200                    | -0.6249 | 0.200                      | -0.5246 |
| 0.250                       | -0.6489 | 0.250                    | -0.6505 | 0.250                      | -0.5457 |
| 0.300                       | -0.6211 | 0.300                    | -0.6223 | 0.300                      | -0.5305 |
| 0.350                       | -0.5767 | 0.350                    | -0.5743 | 0.350                      | -0.5248 |
| 0.400                       | -0.5248 | 0.400                    | -0.5617 | 0.400                      | -0.4977 |
| 0.450                       | -0.4675 | 0.450                    | -0.5070 | 0.450                      | -0.4705 |
| 0.500                       | -0.4458 | 0.500                    | -0.4882 | 0.500                      | -0.4349 |
| 0.550                       | -0.3917 | 0.550                    | -0.4683 | 0.550                      | -0.4275 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.4555 | 0.005 | 0.4759 | 0.005 | 0.4092 |
| 0.010         | 0.2458 | 0.010 | 0.2252 | 0.010 | 0.1108 |

Flight 23 Test point 51

Sweep, deg = 25.1 Mach = 0.71 hp, ft = 25000. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 273.2 Rnpu = 2495000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8730  | 0.000                    | 0.9112  | 0.000                      | 0.9119  |
| 0.005                       | -0.0260 | 0.005                    | 0.0370  | 0.005                      | 0.3347  |
| 0.010                       | -0.2860 | 0.010                    | -0.2189 | 0.010                      | 0.0388  |
| 0.020                       | -0.5171 | 0.020                    | -0.4540 | 0.020                      | -0.2924 |
| 0.040                       | -0.6523 | 0.040                    | -0.5655 | 0.040                      | -0.4329 |
| 0.060                       | -0.6825 | 0.060                    | -0.5928 | 0.060                      | -0.5013 |
| 0.080                       | -0.6796 | 0.080                    | -0.6164 | 0.080                      | -0.5197 |
| 0.100                       | -0.6801 | 0.100                    | -0.6110 | 0.100                      | -0.5298 |
| 0.125                       | -0.6140 | 0.125                    | -0.6063 | 0.125                      | -0.5228 |
| 0.150                       | -0.6869 | 0.150                    | -0.6368 | 0.150                      | -0.5402 |
| 0.175                       | -0.6624 | 0.175                    | -0.6560 | 0.175                      | -0.5600 |
| 0.200                       | -0.7151 | 0.200                    | -0.6671 | 0.200                      | -0.5449 |
| 0.250                       | -0.7000 | 0.250                    | -0.7020 | 0.250                      | -0.5765 |
| 0.300                       | -0.6740 | 0.300                    | -0.6724 | 0.300                      | -0.5641 |
| 0.350                       | -0.6241 | 0.350                    | -0.6268 | 0.350                      | -0.5644 |
| 0.400                       | -0.5649 | 0.400                    | -0.6064 | 0.400                      | -0.5355 |
| 0.450                       | -0.5034 | 0.450                    | -0.5442 | 0.450                      | -0.5091 |
| 0.500                       | -0.4813 | 0.500                    | -0.5245 | 0.500                      | -0.4643 |
| 0.550                       | -0.4159 | 0.550                    | -0.5049 | 0.550                      | -0.4514 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4622 | 0.005 | 0.4725 | 0.005 | 0.3885 |
| 0.010 | 0.2263 | 0.010 | 0.1869 | 0.010 | 0.0448 |

Flight 23 Test point 52

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 25300. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 266.2 Rnpu = 2451000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8842  | 0.000                    | 0.9210  | 0.000                      | 0.9155  |
| 0.005                       | 0.1113  | 0.005                    | 0.1675  | 0.005                      | 0.4404  |
| 0.010                       | -0.1477 | 0.010                    | -0.0788 | 0.010                      | 0.1626  |
| 0.020                       | -0.3772 | 0.020                    | -0.3166 | 0.020                      | -0.1566 |
| 0.040                       | -0.5270 | 0.040                    | -0.4413 | 0.040                      | -0.3154 |
| 0.060                       | -0.5650 | 0.060                    | -0.4829 | 0.060                      | -0.4010 |
| 0.080                       | -0.5804 | 0.080                    | -0.5144 | 0.080                      | -0.4236 |
| 0.100                       | -0.5845 | 0.100                    | -0.5207 | 0.100                      | -0.4428 |
| 0.125                       | -0.5380 | 0.125                    | -0.5228 | 0.125                      | -0.4388 |
| 0.150                       | -0.6111 | 0.150                    | -0.5565 | 0.150                      | -0.4652 |
| 0.175                       | -0.5982 | 0.175                    | -0.5823 | 0.175                      | -0.4856 |
| 0.200                       | -0.6435 | 0.200                    | -0.5971 | 0.200                      | -0.4799 |
| 0.250                       | -0.6401 | 0.250                    | -0.6332 | 0.250                      | -0.5235 |
| 0.300                       | -0.6269 | 0.300                    | -0.6201 | 0.300                      | -0.5186 |
| 0.350                       | -0.5831 | 0.350                    | -0.5807 | 0.350                      | -0.5249 |
| 0.400                       | -0.5354 | 0.400                    | -0.5683 | 0.400                      | -0.5017 |
| 0.450                       | -0.4786 | 0.450                    | -0.5137 | 0.450                      | -0.4813 |
| 0.500                       | -0.4592 | 0.500                    | -0.5015 | 0.500                      | -0.4456 |
| 0.550                       | -0.3982 | 0.550                    | -0.4853 | 0.550                      | -0.4370 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.3632 | 0.005 | 0.3660 | 0.005 | 0.2737  |
| 0.010         | 0.1125 | 0.010 | 0.0663 | 0.010 | -0.0952 |

Fight 23 Test point 53

Sweep, deg = 25.1 Mach = 0.71 hp, ft = 24800. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 275.3 Rnpu = 2511000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8603  | 0.000                    | 0.8967  | 0.000                      | 0.9021  |
| 0.005                       | -0.0993 | 0.005                    | -0.0423 | 0.005                      | 0.2738  |
| 0.010                       | -0.3642 | 0.010                    | -0.3014 | 0.010                      | -0.0371 |
| 0.020                       | -0.5924 | 0.020                    | -0.5403 | 0.020                      | -0.3690 |
| 0.040                       | -0.7279 | 0.040                    | -0.6412 | 0.040                      | -0.5029 |
| 0.060                       | -0.7481 | 0.060                    | -0.6605 | 0.060                      | -0.5637 |
| 0.080                       | -0.7327 | 0.080                    | -0.6722 | 0.080                      | -0.5730 |
| 0.100                       | -0.7264 | 0.100                    | -0.6626 | 0.100                      | -0.5781 |
| 0.125                       | -0.6496 | 0.125                    | -0.6439 | 0.125                      | -0.5640 |
| 0.150                       | -0.7281 | 0.150                    | -0.6754 | 0.150                      | -0.5798 |
| 0.175                       | -0.6975 | 0.175                    | -0.6980 | 0.175                      | -0.5944 |
| 0.200                       | -0.7473 | 0.200                    | -0.7037 | 0.200                      | -0.5860 |
| 0.250                       | -0.7267 | 0.250                    | -0.7308 | 0.250                      | -0.6093 |
| 0.300                       | -0.6988 | 0.300                    | -0.6991 | 0.300                      | -0.5908 |
| 0.350                       | -0.6414 | 0.350                    | -0.6470 | 0.350                      | -0.5862 |
| 0.400                       | -0.5773 | 0.400                    | -0.6271 | 0.400                      | -0.5499 |
| 0.450                       | -0.5175 | 0.450                    | -0.5634 | 0.450                      | -0.5236 |
| 0.500                       | -0.4899 | 0.500                    | -0.5389 | 0.500                      | -0.4763 |
| 0.550                       | -0.4230 | 0.550                    | -0.5110 | 0.550                      | -0.4579 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.5100 | 0.005 | 0.5223 | 0.005 | 0.4475 |
| 0.010         | 0.2807 | 0.010 | 0.2501 | 0.010 | 0.1175 |

Fight 23 Test point 54

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 24900. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 269.1 Rnpu = 2477000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9422  | 0.000                    | 0.9801  | 0.000                      | 0.9841  |
| 0.005                       | -0.0266 | 0.005                    | 0.0407  | 0.005                      | 0.3644  |
| 0.010                       | -0.3060 | 0.010                    | -0.2307 | 0.010                      | 0.0484  |
| 0.020                       | -0.5601 | 0.020                    | -0.4863 | 0.020                      | -0.3108 |
| 0.040                       | -0.7189 | 0.040                    | -0.6134 | 0.040                      | -0.4632 |
| 0.060                       | -0.7498 | 0.060                    | -0.6432 | 0.060                      | -0.5334 |
| 0.080                       | -0.7533 | 0.080                    | -0.6694 | 0.080                      | -0.5511 |
| 0.100                       | -0.7546 | 0.100                    | -0.6618 | 0.100                      | -0.5701 |
| 0.125                       | -0.6731 | 0.125                    | -0.6529 | 0.125                      | -0.5611 |
| 0.150                       | -0.7585 | 0.150                    | -0.6875 | 0.150                      | -0.5839 |
| 0.175                       | -0.7310 | 0.175                    | -0.7182 | 0.175                      | -0.5959 |
| 0.200                       | -0.7875 | 0.200                    | -0.7212 | 0.200                      | -0.5973 |
| 0.250                       | -0.7643 | 0.250                    | -0.7673 | 0.250                      | -0.6240 |
| 0.300                       | -0.7360 | 0.300                    | -0.7358 | 0.300                      | -0.6178 |
| 0.350                       | -0.6722 | 0.350                    | -0.6792 | 0.350                      | -0.6144 |
| 0.400                       | -0.6048 | 0.400                    | -0.6587 | 0.400                      | -0.5792 |
| 0.450                       | -0.5373 | 0.450                    | -0.5876 | 0.450                      | -0.5431 |
| 0.500                       | -0.5069 | 0.500                    | -0.5609 | 0.500                      | -0.4941 |
| 0.550                       | -0.4388 | 0.550                    | -0.5363 | 0.550                      | -0.4676 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.5228 | 0.005 | 0.5272 | 0.005 | 0.4345 |
| 0.010         | 0.2727 | 0.010 | 0.2246 | 0.010 | 0.0719 |

Fight 23 Test point 55

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 25800. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 263.2 Rnpu = 2423000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9587  | 0.000                    | 1.0000  | 0.000                      | 0.9925  |
| 0.005                       | 0.1439  | 0.005                    | 0.2123  | 0.005                      | 0.4977  |
| 0.010                       | -0.1316 | 0.010                    | -0.0473 | 0.010                      | 0.2018  |
| 0.020                       | -0.3820 | 0.020                    | -0.3157 | 0.020                      | -0.1428 |
| 0.040                       | -0.5578 | 0.040                    | -0.4616 | 0.040                      | -0.3174 |
| 0.060                       | -0.6066 | 0.060                    | -0.5074 | 0.060                      | -0.4132 |
| 0.080                       | -0.6301 | 0.080                    | -0.5483 | 0.080                      | -0.4381 |
| 0.100                       | -0.6411 | 0.100                    | -0.5523 | 0.100                      | -0.4645 |
| 0.125                       | -0.5931 | 0.125                    | -0.5585 | 0.125                      | -0.4707 |
| 0.150                       | -0.6730 | 0.150                    | -0.5993 | 0.150                      | -0.4990 |
| 0.175                       | -0.6583 | 0.175                    | -0.6305 | 0.175                      | -0.5218 |
| 0.200                       | -0.7182 | 0.200                    | -0.6483 | 0.200                      | -0.5284 |
| 0.250                       | -0.7086 | 0.250                    | -0.7040 | 0.250                      | -0.5663 |
| 0.300                       | -0.6920 | 0.300                    | -0.6850 | 0.300                      | -0.5715 |
| 0.350                       | -0.6378 | 0.350                    | -0.6365 | 0.350                      | -0.5782 |
| 0.400                       | -0.5799 | 0.400                    | -0.6241 | 0.400                      | -0.5471 |
| 0.450                       | -0.5166 | 0.450                    | -0.5562 | 0.450                      | -0.5156 |
| 0.500                       | -0.4909 | 0.500                    | -0.5393 | 0.500                      | -0.4747 |
| 0.550                       | -0.4255 | 0.550                    | -0.5212 | 0.550                      | -0.4488 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4039 | 0.005 | 0.4001 | 0.005 | 0.2987  |
| 0.010 | 0.1358 | 0.010 | 0.0719 | 0.010 | -0.1014 |



Fight 23 Test point 56

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 267.9 Rnpu = 2471000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9408  | 0.000                    | 0.9819  | 0.000                      | 0.9827  |
| 0.005                       | -0.0240 | 0.005                    | 0.0332  | 0.005                      | 0.3648  |
| 0.010                       | -0.3086 | 0.010                    | -0.2376 | 0.010                      | 0.0472  |
| 0.020                       | -0.5650 | 0.020                    | -0.4968 | 0.020                      | -0.3139 |
| 0.040                       | -0.7265 | 0.040                    | -0.6259 | 0.040                      | -0.4679 |
| 0.060                       | -0.7596 | 0.060                    | -0.6560 | 0.060                      | -0.5354 |
| 0.080                       | -0.7628 | 0.080                    | -0.6802 | 0.080                      | -0.5571 |
| 0.100                       | -0.7654 | 0.100                    | -0.6740 | 0.100                      | -0.5698 |
| 0.125                       | -0.6860 | 0.125                    | -0.6606 | 0.125                      | -0.5641 |
| 0.150                       | -0.7673 | 0.150                    | -0.6941 | 0.150                      | -0.5834 |
| 0.175                       | -0.7366 | 0.175                    | -0.7247 | 0.175                      | -0.6006 |
| 0.200                       | -0.8007 | 0.200                    | -0.7292 | 0.200                      | -0.6011 |
| 0.250                       | -0.7757 | 0.250                    | -0.7755 | 0.250                      | -0.6277 |
| 0.300                       | -0.7489 | 0.300                    | -0.7420 | 0.300                      | -0.6217 |
| 0.350                       | -0.6775 | 0.350                    | -0.6806 | 0.350                      | -0.6212 |
| 0.400                       | -0.6122 | 0.400                    | -0.6616 | 0.400                      | -0.5792 |
| 0.450                       | -0.5418 | 0.450                    | -0.5866 | 0.450                      | -0.5470 |
| 0.500                       | -0.5106 | 0.500                    | -0.5642 | 0.500                      | -0.4961 |
| 0.550                       | -0.4443 | 0.550                    | -0.5329 | 0.550                      | -0.4682 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5213 | 0.005 | 0.5288 | 0.005 | 0.4399 |
| 0.010 | 0.2736 | 0.010 | 0.2321 | 0.010 | 0.0769 |

Fight 23 Test point 57

Sweep, deg = 20.0 Mach = 0.76 hp, ft = 25000. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 313.0 Rnpu = 2689000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9769  | 0.000                    | 1.0146  | 0.000                      | 0.9999  |
| 0.005                       | 0.2554  | 0.005                    | 0.3145  | 0.005                      | 0.5598  |
| 0.010                       | -0.0148 | 0.010                    | 0.0551  | 0.010                      | 0.2773  |
| 0.020                       | -0.2759 | 0.020                    | -0.2129 | 0.020                      | -0.0725 |
| 0.040                       | -0.4837 | 0.040                    | -0.3842 | 0.040                      | -0.2621 |
| 0.060                       | -0.5627 | 0.060                    | -0.4588 | 0.060                      | -0.3746 |
| 0.080                       | -0.5911 | 0.080                    | -0.5186 | 0.080                      | -0.4259 |
| 0.100                       | -0.6248 | 0.100                    | -0.5366 | 0.100                      | -0.4618 |
| 0.125                       | -0.5976 | 0.125                    | -0.5481 | 0.125                      | -0.4753 |
| 0.150                       | -0.7028 | 0.150                    | -0.5951 | 0.150                      | -0.5247 |
| 0.175                       | -0.6985 | 0.175                    | -0.6443 | 0.175                      | -0.5646 |
| 0.200                       | -0.7404 | 0.200                    | -0.6820 | 0.200                      | -0.5700 |
| 0.250                       | -0.8318 | 0.250                    | -0.8521 | 0.250                      | -0.6242 |
| 0.300                       | -0.8609 | 0.300                    | -0.8346 | 0.300                      | -0.6765 |
| 0.350                       | -0.7536 | 0.350                    | -0.8444 | 0.350                      | -0.7098 |
| 0.400                       | -0.6495 | 0.400                    | -0.7486 | 0.400                      | -0.5826 |
| 0.450                       | -0.5423 | 0.450                    | -0.5693 | 0.450                      | -0.5609 |
| 0.500                       | -0.5091 | 0.500                    | -0.5716 | 0.500                      | -0.5061 |
| 0.550                       | -0.4442 | 0.550                    | -0.5418 | 0.550                      | -0.4594 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3583 | 0.005 | 0.3531 | 0.005 | 0.2723  |
| 0.010 | 0.0846 | 0.010 | 0.0152 | 0.010 | -0.1346 |

Fight 23 Test point 58

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 24900. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 311.1 Rnpu = 2683000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9725  | 0.000                    | 1.0131  | 0.000                      | 1.0008  |
| 0.005                       | 0.1765  | 0.005                    | 0.2349  | 0.005                      | 0.5007  |
| 0.010                       | -0.1004 | 0.010                    | -0.0279 | 0.010                      | 0.2070  |
| 0.020                       | -0.3606 | 0.020                    | -0.2972 | 0.020                      | -0.1518 |
| 0.040                       | -0.5580 | 0.040                    | -0.4593 | 0.040                      | -0.3364 |
| 0.060                       | -0.6269 | 0.060                    | -0.5286 | 0.060                      | -0.4393 |
| 0.080                       | -0.6580 | 0.080                    | -0.5844 | 0.080                      | -0.4874 |
| 0.100                       | -0.6718 | 0.100                    | -0.6001 | 0.100                      | -0.5237 |
| 0.125                       | -0.6678 | 0.125                    | -0.5990 | 0.125                      | -0.5253 |
| 0.150                       | -0.7275 | 0.150                    | -0.6422 | 0.150                      | -0.5736 |
| 0.175                       | -0.7320 | 0.175                    | -0.6797 | 0.175                      | -0.6186 |
| 0.200                       | -0.8108 | 0.200                    | -0.7188 | 0.200                      | -0.6175 |
| 0.250                       | -0.8862 | 0.250                    | -0.8800 | 0.250                      | -0.6611 |
| 0.300                       | -0.9203 | 0.300                    | -0.8853 | 0.300                      | -0.7133 |
| 0.350                       | -0.7492 | 0.350                    | -0.8984 | 0.350                      | -0.7764 |
| 0.400                       | -0.6450 | 0.400                    | -0.8398 | 0.400                      | -0.5838 |
| 0.450                       | -0.5540 | 0.450                    | -0.5561 | 0.450                      | -0.5776 |
| 0.500                       | -0.5168 | 0.500                    | -0.5665 | 0.500                      | -0.5146 |
| 0.550                       | -0.4499 | 0.550                    | -0.5466 | 0.550                      | -0.4667 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.4252 | 0.005 | 0.4229 | 0.005 | 0.3461  |
| 0.010         | 0.1560 | 0.010 | 0.0985 | 0.010 | -0.0507 |

Fight 23 Test point 59

Sweep, deg = 20.0 Mach = 0.76 hp, ft = 25100. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = 0.4 QBAR, lb/ft<sup>2</sup> = 312.1 Rnpu = 2682000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9508  | 0.000                    | 0.9830  | 0.000                      | 0.9840  |
| 0.005                       | -0.0058 | 0.005                    | 0.0522  | 0.005                      | 0.3385  |
| 0.010                       | -0.2821 | 0.010                    | -0.2252 | 0.010                      | 0.0150  |
| 0.020                       | -0.5453 | 0.020                    | -0.4867 | 0.020                      | -0.3626 |
| 0.040                       | -0.7649 | 0.040                    | -0.6526 | 0.040                      | -0.5274 |
| 0.060                       | -0.8090 | 0.060                    | -0.6648 | 0.060                      | -0.6076 |
| 0.080                       | -0.8013 | 0.080                    | -0.7527 | 0.080                      | -0.6269 |
| 0.100                       | -0.8787 | 0.100                    | -0.8902 | 0.100                      | -0.7211 |
| 0.125                       | -0.7500 | 0.125                    | -0.7160 | 0.125                      | -0.7154 |
| 0.150                       | -0.8876 | 0.150                    | -0.7828 | 0.150                      | -0.6224 |
| 0.175                       | -0.8574 | 0.175                    | -0.8102 | 0.175                      | -0.7256 |
| 0.200                       | -0.9464 | 0.200                    | -0.8261 | 0.200                      | -0.7791 |
| 0.250                       | -1.0144 | 0.250                    | -0.9277 | 0.250                      | -0.8305 |
| 0.300                       | -1.0737 | 0.300                    | -0.9914 | 0.300                      | -0.8350 |
| 0.350                       | -1.0107 | 0.350                    | -1.0365 | 0.350                      | -0.8917 |
| 0.400                       | -0.9728 | 0.400                    | -1.1084 | 0.400                      | -0.9174 |
| 0.450                       | -0.5223 | 0.450                    | -1.1016 | 0.450                      | -0.9019 |
| 0.500                       | -0.4982 | 0.500                    | -0.5056 | 0.500                      | -0.4486 |
| 0.550                       | -0.4424 | 0.550                    | -0.4668 | 0.550                      | -0.4575 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5652 | 0.005 | 0.5746 | 0.005 | 0.5130 |
| 0.010 | 0.3282 | 0.010 | 0.2854 | 0.010 | 0.1714 |

Fight 23 Test point 60

Sweep, deg = 25.3 Mach = 0.75 hp, ft = 25000. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 311.0 Rnpu = 2681000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8800  | 0.000                    | 0.9003  | 0.000                      | 0.9049  |
| 0.005                       | -0.0126 | 0.005                    | 0.0161  | 0.005                      | 0.3057  |
| 0.010                       | -0.2756 | 0.010                    | -0.2432 | 0.010                      | 0.0024  |
| 0.020                       | -0.5177 | 0.020                    | -0.4838 | 0.020                      | -0.3460 |
| 0.040                       | -0.6967 | 0.040                    | -0.6112 | 0.040                      | -0.5056 |
| 0.060                       | -0.7141 | 0.060                    | -0.6404 | 0.060                      | -0.5725 |
| 0.080                       | -0.8280 | 0.080                    | -0.7596 | 0.080                      | -0.6168 |
| 0.100                       | -0.7015 | 0.100                    | -0.6399 | 0.100                      | -0.6790 |
| 0.125                       | -0.6976 | 0.125                    | -0.6810 | 0.125                      | -0.5966 |
| 0.150                       | -0.7742 | 0.150                    | -0.7126 | 0.150                      | -0.6325 |
| 0.175                       | -0.7722 | 0.175                    | -0.7435 | 0.175                      | -0.7244 |
| 0.200                       | -0.8339 | 0.200                    | -0.7440 | 0.200                      | -0.6373 |
| 0.250                       | -0.8766 | 0.250                    | -0.9040 | 0.250                      | -0.6555 |
| 0.300                       | -0.8227 | 0.300                    | -0.9077 | 0.300                      | -0.7343 |
| 0.350                       | -0.7840 | 0.350                    | -0.8640 | 0.350                      | -0.6256 |
| 0.400                       | -0.6424 | 0.400                    | -0.6162 | 0.400                      | -0.5995 |
| 0.450                       | -0.5463 | 0.450                    | -0.5912 | 0.450                      | -0.5602 |
| 0.500                       | -0.5156 | 0.500                    | -0.5533 | 0.500                      | -0.5073 |
| 0.550                       | -0.4432 | 0.550                    | -0.5281 | 0.550                      | -0.4652 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.4882 | 0.005 | 0.5162 | 0.005 | 0.4504 |
| 0.010         | 0.2540 | 0.010 | 0.2331 | 0.010 | 0.1231 |

Flight 23 Test point 61

Sweep, deg = 25.3 Mach = 0.75 hp, ft = 25000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.4 QBAR, lb/ft<sup>2</sup> = 304.8 Rnpu = 2652000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8714  | 0.000                    | 0.9029  | 0.000                      | 0.9055  |
| 0.005                       | -0.0515 | 0.005                    | -0.0069 | 0.005                      | 0.2790  |
| 0.010                       | -0.3173 | 0.010                    | -0.2679 | 0.010                      | -0.0264 |
| 0.020                       | -0.5603 | 0.020                    | -0.5150 | 0.020                      | -0.3798 |
| 0.040                       | -0.7354 | 0.040                    | -0.6403 | 0.040                      | -0.5232 |
| 0.060                       | -0.7246 | 0.060                    | -0.6672 | 0.060                      | -0.5917 |
| 0.080                       | -0.8553 | 0.080                    | -0.7839 | 0.080                      | -0.6355 |
| 0.100                       | -0.6969 | 0.100                    | -0.6668 | 0.100                      | -0.6860 |
| 0.125                       | -0.7283 | 0.125                    | -0.6570 | 0.125                      | -0.6158 |
| 0.150                       | -0.7914 | 0.150                    | -0.7283 | 0.150                      | -0.6505 |
| 0.175                       | -0.7727 | 0.175                    | -0.7318 | 0.175                      | -0.7248 |
| 0.200                       | -0.7902 | 0.200                    | -0.7723 | 0.200                      | -0.6527 |
| 0.250                       | -0.8514 | 0.250                    | -0.9335 | 0.250                      | -0.6860 |
| 0.300                       | -0.8241 | 0.300                    | -0.8670 | 0.300                      | -0.6987 |
| 0.350                       | -0.7208 | 0.350                    | -0.6698 | 0.350                      | -0.6533 |
| 0.400                       | -0.6220 | 0.400                    | -0.6641 | 0.400                      | -0.5975 |
| 0.450                       | -0.5469 | 0.450                    | -0.5953 | 0.450                      | -0.5611 |
| 0.500                       | -0.5088 | 0.500                    | -0.5659 | 0.500                      | -0.4991 |
| 0.550                       | -0.4398 | 0.550                    | -0.5331 | 0.550                      | -0.4668 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.5086 | 0.005 | 0.5221 | 0.005 | 0.4614 |
| 0.010         | 0.2812 | 0.010 | 0.2491 | 0.010 | 0.1357 |

Fight 23 Test point 62

Sweep, deg = 29.7 Mach = 0.75 hp, ft = 24900. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 309.3 Rnpu = 2682000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8108  | 0.000                    | 0.8449  | 0.000                      | 0.8426  |
| 0.005                       | 0.0356  | 0.005                    | 0.0750  | 0.005                      | 0.3348  |
| 0.010                       | -0.2030 | 0.010                    | -0.1570 | 0.010                      | 0.0633  |
| 0.020                       | -0.4235 | 0.020                    | -0.3838 | 0.020                      | -0.2443 |
| 0.040                       | -0.5644 | 0.040                    | -0.5030 | 0.040                      | -0.3849 |
| 0.060                       | -0.6104 | 0.060                    | -0.5420 | 0.060                      | -0.4624 |
| 0.080                       | -0.6119 | 0.080                    | -0.5709 | 0.080                      | -0.4939 |
| 0.100                       | -0.6324 | 0.100                    | -0.5709 | 0.100                      | -0.4995 |
| 0.125                       | -0.5727 | 0.125                    | -0.5661 | 0.125                      | -0.4920 |
| 0.150                       | -0.6467 | 0.150                    | -0.5986 | 0.150                      | -0.5148 |
| 0.175                       | -0.6255 | 0.175                    | -0.6402 | 0.175                      | -0.5431 |
| 0.200                       | -0.6862 | 0.200                    | -0.6751 | 0.200                      | -0.5377 |
| 0.250                       | -0.6833 | 0.250                    | -0.7016 | 0.250                      | -0.5747 |
| 0.300                       | -0.6636 | 0.300                    | -0.6760 | 0.300                      | -0.5699 |
| 0.350                       | -0.6179 | 0.350                    | -0.6141 | 0.350                      | -0.5594 |
| 0.400                       | -0.5580 | 0.400                    | -0.5934 | 0.400                      | -0.5249 |
| 0.450                       | -0.4924 | 0.450                    | -0.5364 | 0.450                      | -0.4944 |
| 0.500                       | -0.4669 | 0.500                    | -0.5106 | 0.500                      | -0.4489 |
| 0.550                       | -0.4067 | 0.550                    | -0.4849 | 0.550                      | -0.4298 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3852 | 0.005 | 0.3964 | 0.005 | 0.3316 |
| 0.010 | 0.1591 | 0.010 | 0.1306 | 0.010 | 0.0054 |

Fight 23 Test point 63

Sweep, deg = 29.5 Mach = 0.75 hp, ft = 25600. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 302.6 Rnpu = 2623000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8221  | 0.000                    | 0.8575  | 0.000                      | 0.8507  |
| 0.005                       | 0.1173  | 0.005                    | 0.1585  | 0.005                      | 0.4014  |
| 0.010                       | -0.1168 | 0.010                    | -0.0669 | 0.010                      | 0.1411  |
| 0.020                       | -0.3391 | 0.020                    | -0.2966 | 0.020                      | -0.1633 |
| 0.040                       | -0.4812 | 0.040                    | -0.4271 | 0.040                      | -0.3156 |
| 0.060                       | -0.5325 | 0.060                    | -0.4778 | 0.060                      | -0.3964 |
| 0.080                       | -0.5213 | 0.080                    | -0.5111 | 0.080                      | -0.4338 |
| 0.100                       | -0.5749 | 0.100                    | -0.5172 | 0.100                      | -0.4472 |
| 0.125                       | -0.5347 | 0.125                    | -0.5197 | 0.125                      | -0.4481 |
| 0.150                       | -0.6021 | 0.150                    | -0.5569 | 0.150                      | -0.4747 |
| 0.175                       | -0.5940 | 0.175                    | -0.5938 | 0.175                      | -0.5022 |
| 0.200                       | -0.6506 | 0.200                    | -0.6068 | 0.200                      | -0.4994 |
| 0.250                       | -0.6452 | 0.250                    | -0.6597 | 0.250                      | -0.5428 |
| 0.300                       | -0.6458 | 0.300                    | -0.6445 | 0.300                      | -0.5423 |
| 0.350                       | -0.6003 | 0.350                    | -0.5943 | 0.350                      | -0.5404 |
| 0.400                       | -0.5432 | 0.400                    | -0.5775 | 0.400                      | -0.5126 |
| 0.450                       | -0.4806 | 0.450                    | -0.5239 | 0.450                      | -0.4844 |
| 0.500                       | -0.4576 | 0.500                    | -0.4997 | 0.500                      | -0.4386 |
| 0.550                       | -0.4027 | 0.550                    | -0.4750 | 0.550                      | -0.4235 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3219 | 0.005 | 0.3333 | 0.005 | 0.2598  |
| 0.010 | 0.0879 | 0.010 | 0.0521 | 0.010 | -0.0819 |



Flight 23 Test point 64

Sweep, deg = 29.2 Mach = 0.75 hp, ft = 25100. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 308.5 Rnpu = 2664000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8007  | 0.000                    | 0.8314  | 0.000                      | 0.8346  |
| 0.005                       | -0.0605 | 0.005                    | -0.0245 | 0.005                      | 0.2509  |
| 0.010                       | -0.3048 | 0.010                    | -0.2625 | 0.010                      | -0.0358 |
| 0.020                       | -0.5250 | 0.020                    | -0.4881 | 0.020                      | -0.3621 |
| 0.040                       | -0.6454 | 0.040                    | -0.5904 | 0.040                      | -0.4887 |
| 0.060                       | -0.6862 | 0.060                    | -0.6351 | 0.060                      | -0.5473 |
| 0.080                       | -0.6277 | 0.080                    | -0.6375 | 0.080                      | -0.5982 |
| 0.100                       | -0.7025 | 0.100                    | -0.6675 | 0.100                      | -0.5838 |
| 0.125                       | -0.6113 | 0.125                    | -0.6310 | 0.125                      | -0.5599 |
| 0.150                       | -0.6929 | 0.150                    | -0.6574 | 0.150                      | -0.5865 |
| 0.175                       | -0.6795 | 0.175                    | -0.7066 | 0.175                      | -0.6101 |
| 0.200                       | -0.7319 | 0.200                    | -0.7035 | 0.200                      | -0.5885 |
| 0.250                       | -0.7523 | 0.250                    | -0.7531 | 0.250                      | -0.6335 |
| 0.300                       | -0.7328 | 0.300                    | -0.6984 | 0.300                      | -0.6173 |
| 0.350                       | -0.6599 | 0.350                    | -0.6520 | 0.350                      | -0.5947 |
| 0.400                       | -0.5833 | 0.400                    | -0.6208 | 0.400                      | -0.5555 |
| 0.450                       | -0.5105 | 0.450                    | -0.5564 | 0.450                      | -0.5152 |
| 0.500                       | -0.4827 | 0.500                    | -0.5247 | 0.500                      | -0.4646 |
| 0.550                       | -0.4187 | 0.550                    | -0.5003 | 0.550                      | -0.4412 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4511 | 0.005 | 0.4709 | 0.005 | 0.4149 |
| 0.010 | 0.2366 | 0.010 | 0.2193 | 0.010 | 0.1113 |

Fight 23 Test point 65

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 353.4 Rnpu = 2877000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9881  | 0.000                    | 1.0275  | 0.000                      | 1.0075  |
| 0.005                       | 0.3954  | 0.005                    | 0.4515  | 0.005                      | 0.6555  |
| 0.010                       | 0.1341  | 0.010                    | 0.2046  | 0.010                      | 0.3968  |
| 0.020                       | -0.1237 | 0.020                    | -0.0640 | 0.020                      | 0.0590  |
| 0.040                       | -0.3431 | 0.040                    | -0.2437 | 0.040                      | -0.1442 |
| 0.060                       | -0.4389 | 0.060                    | -0.3357 | 0.060                      | -0.2663 |
| 0.080                       | -0.4786 | 0.080                    | -0.4050 | 0.080                      | -0.3351 |
| 0.100                       | -0.5099 | 0.100                    | -0.4438 | 0.100                      | -0.3781 |
| 0.125                       | -0.5483 | 0.125                    | -0.4544 | 0.125                      | -0.3931 |
| 0.150                       | -0.5984 | 0.150                    | -0.5183 | 0.150                      | -0.4541 |
| 0.175                       | -0.6328 | 0.175                    | -0.5716 | 0.175                      | -0.5263 |
| 0.200                       | -0.7041 | 0.200                    | -0.5876 | 0.200                      | -0.5714 |
| 0.250                       | -0.7929 | 0.250                    | -0.7345 | 0.250                      | -0.6087 |
| 0.300                       | -0.8451 | 0.300                    | -0.8006 | 0.300                      | -0.6348 |
| 0.350                       | -0.8753 | 0.350                    | -0.8456 | 0.350                      | -0.7418 |
| 0.400                       | -0.8961 | 0.400                    | -0.9236 | 0.400                      | -0.7988 |
| 0.450                       | -0.9221 | 0.450                    | -0.9478 | 0.450                      | -0.8739 |
| 0.500                       | -0.9978 | 0.500                    | -0.9994 | 0.500                      | -0.8889 |
| 0.550                       | -0.4464 | 0.550                    | -0.9805 | 0.550                      | -0.9050 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2942 | 0.005 | 0.2866  | 0.005 | 0.2133  |
| 0.010 | 0.0092 | 0.010 | -0.0628 | 0.010 | -0.2125 |

Flight 23 Test point 66

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25200. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 349.7 Rnpu = 2856000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9919  | 0.000                    | 1.0243  | 0.000                      | 1.0144  |
| 0.005                       | 0.2438  | 0.005                    | 0.3056  | 0.005                      | 0.5411  |
| 0.010                       | -0.0221 | 0.010                    | 0.0480  | 0.010                      | 0.2553  |
| 0.020                       | -0.2849 | 0.020                    | -0.2224 | 0.020                      | -0.0953 |
| 0.040                       | -0.5010 | 0.040                    | -0.3940 | 0.040                      | -0.2878 |
| 0.060                       | -0.5390 | 0.060                    | -0.4572 | 0.060                      | -0.3968 |
| 0.080                       | -0.6456 | 0.080                    | -0.5664 | 0.080                      | -0.4487 |
| 0.100                       | -0.6731 | 0.100                    | -0.6579 | 0.100                      | -0.5462 |
| 0.125                       | -0.6024 | 0.125                    | -0.5741 | 0.125                      | -0.5015 |
| 0.150                       | -0.7141 | 0.150                    | -0.6203 | 0.150                      | -0.5187 |
| 0.175                       | -0.7245 | 0.175                    | -0.6707 | 0.175                      | -0.5860 |
| 0.200                       | -0.8046 | 0.200                    | -0.6924 | 0.200                      | -0.6451 |
| 0.250                       | -0.8838 | 0.250                    | -0.7862 | 0.250                      | -0.7127 |
| 0.300                       | -0.9632 | 0.300                    | -0.8677 | 0.300                      | -0.7521 |
| 0.350                       | -0.9648 | 0.350                    | -0.9161 | 0.350                      | -0.7976 |
| 0.400                       | -0.9745 | 0.400                    | -1.0067 | 0.400                      | -0.9006 |
| 0.450                       | -0.9813 | 0.450                    | -1.0327 | 0.450                      | -0.9523 |
| 0.500                       | -1.0747 | 0.500                    | -1.0810 | 0.500                      | -0.9757 |
| 0.550                       | -0.4872 | 0.550                    | -0.7295 | 0.550                      | -0.9493 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4399 | 0.005 | 0.4311 | 0.005 | 0.3647  |
| 0.010 | 0.1769 | 0.010 | 0.1097 | 0.010 | -0.0233 |

Fight 23 Test point 67

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25200. Angle of attack, deg = 2.1  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 349.4 Rnpu = 2853000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9800  | 0.000                    | 1.0172  | 0.000                      | 1.0072  |
| 0.005                       | 0.1108  | 0.005                    | 0.1740  | 0.005                      | 0.4330  |
| 0.010                       | -0.1618 | 0.010                    | -0.0948 | 0.010                      | 0.1296  |
| 0.020                       | -0.4180 | 0.020                    | -0.3576 | 0.020                      | -0.2401 |
| 0.040                       | -0.6294 | 0.040                    | -0.5305 | 0.040                      | -0.4210 |
| 0.060                       | -0.7006 | 0.060                    | -0.5382 | 0.060                      | -0.5141 |
| 0.080                       | -0.6785 | 0.080                    | -0.6243 | 0.080                      | -0.5194 |
| 0.100                       | -0.8168 | 0.100                    | -0.7639 | 0.100                      | -0.6065 |
| 0.125                       | -0.7223 | 0.125                    | -0.6873 | 0.125                      | -0.7505 |
| 0.150                       | -0.8250 | 0.150                    | -0.7593 | 0.150                      | -0.6595 |
| 0.175                       | -0.8099 | 0.175                    | -0.7703 | 0.175                      | -0.6496 |
| 0.200                       | -0.8906 | 0.200                    | -0.7928 | 0.200                      | -0.6646 |
| 0.250                       | -0.9738 | 0.250                    | -0.8686 | 0.250                      | -0.7766 |
| 0.300                       | -1.0537 | 0.300                    | -0.9493 | 0.300                      | -0.8254 |
| 0.350                       | -1.0521 | 0.350                    | -0.9917 | 0.350                      | -0.8740 |
| 0.400                       | -1.0669 | 0.400                    | -1.0774 | 0.400                      | -0.9538 |
| 0.450                       | -1.0627 | 0.450                    | -1.0940 | 0.450                      | -1.0046 |
| 0.500                       | -0.5624 | 0.500                    | -1.0030 | 0.500                      | -1.0325 |
| 0.550                       | -0.4594 | 0.550                    | -0.5015 | 0.550                      | -0.6045 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5554 | 0.005 | 0.5478 | 0.005 | 0.4868 |
| 0.010 | 0.3107 | 0.010 | 0.2512 | 0.010 | 0.1324 |

Flight 24 Test point 1

Sweep, deg = 20.0 Mach = 0.60 hp, ft = 10000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 370.5 Rnpu = 3557000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9341  | 0.000                    | 0.9722  | 0.000                      | 0.9689  |
| 0.005                       | 0.0365  | 0.005                    | 0.1304  | 0.005                      | 0.4474  |
| 0.010                       | -0.2300 | 0.010                    | -0.1399 | 0.010                      | 0.1516  |
| 0.020                       | -0.4560 | 0.020                    | -0.3700 | 0.020                      | -0.1887 |
| 0.040                       | -0.5798 | 0.040                    | -0.4658 | 0.040                      | -0.3306 |
| 0.060                       | -0.6005 | 0.060                    | -0.4952 | 0.060                      | -0.3950 |
| 0.080                       | -0.6087 | 0.080                    | -0.5125 | 0.080                      | -0.4117 |
| 0.100                       | -0.6048 | 0.100                    | -0.5192 | 0.100                      | -0.4253 |
| 0.125                       | -0.5325 | 0.125                    | -0.5165 | 0.125                      | -0.4259 |
| 0.150                       | -0.5998 | 0.150                    | -0.5430 | 0.150                      | -0.4452 |
| 0.175                       | -0.5867 | 0.175                    | -0.5586 | 0.175                      | -0.4604 |
| 0.200                       | -0.6224 | 0.200                    | -0.5696 | 0.200                      | -0.4605 |
| 0.250                       | -0.6170 | 0.250                    | -0.5947 | 0.250                      | -0.4869 |
| 0.300                       | -0.6009 | 0.300                    | -0.5803 | 0.300                      | -0.4857 |
| 0.350                       | -0.5548 | 0.350                    | -0.5530 | 0.350                      | -0.4909 |
| 0.400                       | -0.5092 | 0.400                    | -0.5484 | 0.400                      | -0.4804 |
| 0.450                       | -0.4631 | 0.450                    | -0.5047 | 0.450                      | -0.4644 |
| 0.500                       | -0.4502 | 0.500                    | -0.4879 | 0.500                      | -0.4382 |
| 0.550                       | -0.3993 | 0.550                    | -0.4908 | 0.550                      | -0.4498 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.4096 | 0.005 | 0.3889 | 0.005 | 0.2648  |
| 0.010         | 0.1514 | 0.010 | 0.0778 | 0.010 | -0.1221 |

Flight 24 Test point 2

Sweep, deg = 20.0 Mach = 0.60 hp, ft = 9900. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -5.2 QBAR, lb/ft<sup>2</sup> = 368.9 Rnpu = 3555000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9866  | 0.000                    | 1.0316  | 0.000                      | 1.0216  |
| 0.005                       | 0.0728  | 0.005                    | 0.1933  | 0.005                      | 0.5190  |
| 0.010                       | -0.2042 | 0.010                    | -0.0857 | 0.010                      | 0.2222  |
| 0.020                       | -0.4378 | 0.020                    | -0.3267 | 0.020                      | -0.1295 |
| 0.040                       | -0.5703 | 0.040                    | -0.4406 | 0.040                      | -0.2837 |
| 0.060                       | -0.5963 | 0.060                    | -0.4691 | 0.060                      | -0.3594 |
| 0.080                       | -0.6031 | 0.080                    | -0.4879 | 0.080                      | -0.3791 |
| 0.100                       | -0.5984 | 0.100                    | -0.4978 | 0.100                      | -0.3923 |
| 0.125                       | -0.5301 | 0.125                    | -0.5000 | 0.125                      | -0.4014 |
| 0.150                       | -0.6025 | 0.150                    | -0.5248 | 0.150                      | -0.4240 |
| 0.175                       | -0.5851 | 0.175                    | -0.5460 | 0.175                      | -0.4378 |
| 0.200                       | -0.6262 | 0.200                    | -0.5546 | 0.200                      | -0.4324 |
| 0.250                       | -0.6195 | 0.250                    | -0.5869 | 0.250                      | -0.4748 |
| 0.300                       | -0.6007 | 0.300                    | -0.5713 | 0.300                      | -0.4745 |
| 0.350                       | -0.5539 | 0.350                    | -0.5470 | 0.350                      | -0.4832 |
| 0.400                       | -0.5061 | 0.400                    | -0.5414 | 0.400                      | -0.4738 |
| 0.450                       | -0.4565 | 0.450                    | -0.4958 | 0.450                      | -0.4570 |
| 0.500                       | -0.4449 | 0.500                    | -0.4828 | 0.500                      | -0.4289 |
| 0.550                       | -0.3910 | 0.550                    | -0.4807 | 0.550                      | -0.4390 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4409 | 0.005 | 0.3984 | 0.005 | 0.2530  |
| 0.010 | 0.1753 | 0.010 | 0.0730 | 0.010 | -0.1533 |

m-550

Flight 24 Test point 3

Sweep, deg = 20.0 Mach = 0.61 hp, ft = 9600. Angle of attack, deg = 2.9  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 385.4 Rnpu = 3660000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8374  | 0.000                    | 0.8798  | 0.000                      | 0.9142  |
| 0.005                       | -0.4476 | 0.005                    | -0.3398 | 0.005                      | 0.0838  |
| 0.010                       | -0.7241 | 0.010                    | -0.6251 | 0.010                      | -0.2634 |
| 0.020                       | -0.9221 | 0.020                    | -0.8159 | 0.020                      | -0.6118 |
| 0.040                       | -0.9610 | 0.040                    | -0.8326 | 0.040                      | -0.6787 |
| 0.060                       | -0.9137 | 0.060                    | -0.8006 | 0.060                      | -0.6891 |
| 0.080                       | -0.8742 | 0.080                    | -0.7826 | 0.080                      | -0.6647 |
| 0.100                       | -0.8355 | 0.100                    | -0.7546 | 0.100                      | -0.6508 |
| 0.125                       | -0.7177 | 0.125                    | -0.7252 | 0.125                      | -0.6084 |
| 0.150                       | -0.7871 | 0.150                    | -0.7289 | 0.150                      | -0.6005 |
| 0.175                       | -0.7451 | 0.175                    | -0.7353 | 0.175                      | -0.6137 |
| 0.200                       | -0.7812 | 0.200                    | -0.7352 | 0.200                      | -0.6024 |
| 0.250                       | -0.7572 | 0.250                    | -0.7457 | 0.250                      | -0.6213 |
| 0.300                       | -0.7207 | 0.300                    | -0.7093 | 0.300                      | -0.6038 |
| 0.350                       | -0.6517 | 0.350                    | -0.6586 | 0.350                      | -0.5963 |
| 0.400                       | -0.5907 | 0.400                    | -0.6349 | 0.400                      | -0.5686 |
| 0.450                       | -0.5275 | 0.450                    | -0.5767 | 0.450                      | -0.5343 |
| 0.500                       | -0.5069 | 0.500                    | -0.5490 | 0.500                      | -0.4969 |
| 0.550                       | -0.4417 | 0.550                    | -0.5393 | 0.550                      | -0.4907 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.6771 | 0.005 | 0.6764 | 0.005 | 0.5931 |
| 0.010 | 0.4607 | 0.010 | 0.4210 | 0.010 | 0.2798 |

Fight 24 Test point 4

Sweep, deg = 20.0 Mach = 0.61 hp, ft = 10000. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 376.9 Rho = 3595000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9224  | 0.000                    | 0.9645  | 0.000                      | 0.9653  |
| 0.005                       | -0.0458 | 0.005                    | 0.0506  | 0.005                      | 0.3848  |
| 0.010                       | -0.3143 | 0.010                    | -0.2199 | 0.010                      | 0.0759  |
| 0.020                       | -0.5373 | 0.020                    | -0.4477 | 0.020                      | -0.2622 |
| 0.040                       | -0.6479 | 0.040                    | -0.5327 | 0.040                      | -0.3940 |
| 0.060                       | -0.6579 | 0.060                    | -0.5552 | 0.060                      | -0.4555 |
| 0.080                       | -0.6591 | 0.080                    | -0.5646 | 0.080                      | -0.4616 |
| 0.100                       | -0.6420 | 0.100                    | -0.5646 | 0.100                      | -0.4682 |
| 0.125                       | -0.5706 | 0.125                    | -0.5606 | 0.125                      | -0.4697 |
| 0.150                       | -0.6413 | 0.150                    | -0.5809 | 0.150                      | -0.4856 |
| 0.175                       | -0.6176 | 0.175                    | -0.5979 | 0.175                      | -0.4985 |
| 0.200                       | -0.6535 | 0.200                    | -0.6040 | 0.200                      | -0.4851 |
| 0.250                       | -0.6467 | 0.250                    | -0.6305 | 0.250                      | -0.5184 |
| 0.300                       | -0.6284 | 0.300                    | -0.6117 | 0.300                      | -0.5108 |
| 0.350                       | -0.5771 | 0.350                    | -0.5781 | 0.350                      | -0.5185 |
| 0.400                       | -0.5297 | 0.400                    | -0.5693 | 0.400                      | -0.5022 |
| 0.450                       | -0.4806 | 0.450                    | -0.5217 | 0.450                      | -0.4813 |
| 0.500                       | -0.4638 | 0.500                    | -0.5049 | 0.500                      | -0.4540 |
| 0.550                       | -0.4095 | 0.550                    | -0.5026 | 0.550                      | -0.4573 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4695 | 0.005 | 0.4499 | 0.005 | 0.3338  |
| 0.010 | 0.2150 | 0.010 | 0.1500 | 0.010 | -0.0362 |



Flight 24 Test point 5

Sweep, deg = 25.0 Mach = 0.61 hp, ft = 9900, Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 374.3 Rnpu = 3596000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8515  | 0.000                    | 0.8920  | 0.000                      | 0.8949  |
| 0.005                       | -0.0766 | 0.005                    | 0.0092  | 0.005                      | 0.3284  |
| 0.010                       | -0.3267 | 0.010                    | -0.2418 | 0.010                      | 0.0374  |
| 0.020                       | -0.5243 | 0.020                    | -0.4464 | 0.020                      | -0.2782 |
| 0.040                       | -0.6188 | 0.040                    | -0.5278 | 0.040                      | -0.3897 |
| 0.060                       | -0.6231 | 0.060                    | -0.5279 | 0.060                      | -0.4404 |
| 0.080                       | -0.6201 | 0.080                    | -0.5394 | 0.080                      | -0.4456 |
| 0.100                       | -0.6083 | 0.100                    | -0.5375 | 0.100                      | -0.4503 |
| 0.125                       | -0.5341 | 0.125                    | -0.5307 | 0.125                      | -0.4464 |
| 0.150                       | -0.5985 | 0.150                    | -0.5467 | 0.150                      | -0.4474 |
| 0.175                       | -0.5787 | 0.175                    | -0.5601 | 0.175                      | -0.4591 |
| 0.200                       | -0.6125 | 0.200                    | -0.5686 | 0.200                      | -0.4593 |
| 0.250                       | -0.6035 | 0.250                    | -0.5883 | 0.250                      | -0.4883 |
| 0.300                       | -0.5863 | 0.300                    | -0.5721 | 0.300                      | -0.4811 |
| 0.350                       | -0.5408 | 0.350                    | -0.5377 | 0.350                      | -0.4847 |
| 0.400                       | -0.4967 | 0.400                    | -0.5305 | 0.400                      | -0.4711 |
| 0.450                       | -0.4491 | 0.450                    | -0.4871 | 0.450                      | -0.4515 |
| 0.500                       | -0.4362 | 0.500                    | -0.4739 | 0.500                      | -0.4250 |
| 0.550                       | -0.3885 | 0.550                    | -0.4734 | 0.550                      | -0.4377 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4427 | 0.005 | 0.4288 | 0.005 | 0.3259  |
| 0.010 | 0.2059 | 0.010 | 0.1480 | 0.010 | -0.0190 |

Flight 24 Test point 6

Sweep, deg = 24.9 Mach = 0.60 hp, ft = 9800. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 366.5 Rnpu = 3557000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8714  | 0.000                    | 0.9123  | 0.000                      | 0.8931  |
| 0.005                       | 0.1971  | 0.005                    | 0.2673  | 0.005                      | 0.5244  |
| 0.010                       | -0.0506 | 0.010                    | 0.0259  | 0.010                      | 0.2669  |
| 0.020                       | -0.2695 | 0.020                    | -0.1998 | 0.020                      | -0.0419 |
| 0.040                       | -0.4074 | 0.040                    | -0.3276 | 0.040                      | -0.1979 |
| 0.060                       | -0.4454 | 0.060                    | -0.3516 | 0.060                      | -0.2723 |
| 0.080                       | -0.4562 | 0.080                    | -0.3785 | 0.080                      | -0.2976 |
| 0.100                       | -0.4639 | 0.100                    | -0.3947 | 0.100                      | -0.3172 |
| 0.125                       | -0.4306 | 0.125                    | -0.4053 | 0.125                      | -0.3214 |
| 0.150                       | -0.4878 | 0.150                    | -0.4294 | 0.150                      | -0.3392 |
| 0.175                       | -0.4804 | 0.175                    | -0.4576 | 0.175                      | -0.3605 |
| 0.200                       | -0.5182 | 0.200                    | -0.4687 | 0.200                      | -0.3687 |
| 0.250                       | -0.5208 | 0.250                    | -0.4990 | 0.250                      | -0.4054 |
| 0.300                       | -0.5098 | 0.300                    | -0.4920 | 0.300                      | -0.4130 |
| 0.350                       | -0.4807 | 0.350                    | -0.4697 | 0.350                      | -0.4205 |
| 0.400                       | -0.4428 | 0.400                    | -0.4745 | 0.400                      | -0.4170 |
| 0.450                       | -0.4056 | 0.450                    | -0.4369 | 0.450                      | -0.4066 |
| 0.500                       | -0.3982 | 0.500                    | -0.4346 | 0.500                      | -0.3880 |
| 0.550                       | -0.3558 | 0.550                    | -0.4353 | 0.550                      | -0.4077 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2242  | 0.005 | 0.2108  | 0.005 | 0.0779  |
| 0.010 | -0.0297 | 0.010 | -0.1046 | 0.010 | -0.3085 |

Flight 24 Test point 7

Sweep, deg = 24.9 Mach = 0.60 hp, ft = 10400. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 365.1 Rnpu = 3529000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8752  | 0.000                    | 0.9122  | 0.000                      | 0.8995  |
| 0.005                       | 0.1154  | 0.005                    | 0.1894  | 0.005                      | 0.4685  |
| 0.010                       | -0.1321 | 0.010                    | -0.0550 | 0.010                      | 0.1978  |
| 0.020                       | -0.3442 | 0.020                    | -0.2773 | 0.020                      | -0.1143 |
| 0.040                       | -0.4718 | 0.040                    | -0.3925 | 0.040                      | -0.2597 |
| 0.060                       | -0.5007 | 0.060                    | -0.4097 | 0.060                      | -0.3251 |
| 0.080                       | -0.5121 | 0.080                    | -0.4348 | 0.080                      | -0.3457 |
| 0.100                       | -0.5078 | 0.100                    | -0.4398 | 0.100                      | -0.3587 |
| 0.125                       | -0.4625 | 0.125                    | -0.4459 | 0.125                      | -0.3640 |
| 0.150                       | -0.5254 | 0.150                    | -0.4682 | 0.150                      | -0.3780 |
| 0.175                       | -0.5163 | 0.175                    | -0.4882 | 0.175                      | -0.3966 |
| 0.200                       | -0.5482 | 0.200                    | -0.5042 | 0.200                      | -0.3991 |
| 0.250                       | -0.5523 | 0.250                    | -0.5301 | 0.250                      | -0.4331 |
| 0.300                       | -0.5379 | 0.300                    | -0.5201 | 0.300                      | -0.4340 |
| 0.350                       | -0.5008 | 0.350                    | -0.4970 | 0.350                      | -0.4425 |
| 0.400                       | -0.4630 | 0.400                    | -0.4922 | 0.400                      | -0.4347 |
| 0.450                       | -0.4208 | 0.450                    | -0.4536 | 0.450                      | -0.4234 |
| 0.500                       | -0.4120 | 0.500                    | -0.4496 | 0.500                      | -0.4022 |
| 0.550                       | -0.3686 | 0.550                    | -0.4493 | 0.550                      | -0.4178 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3036 | 0.005 | 0.2904  | 0.005 | 0.1651  |
| 0.010 | 0.0533 | 0.010 | -0.0141 | 0.010 | -0.2056 |

Flight 24 Test point 8

Sweep, deg = 24.9 Mach = 0.60 hp, ft = 9800. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 372.8 Rnpu = 3582000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8521  | 0.000                    | 0.8893  | 0.000                      | 0.8984  |
| 0.005                       | -0.1015 | 0.005                    | -0.0129 | 0.005                      | 0.3104  |
| 0.010                       | -0.3507 | 0.010                    | -0.2642 | 0.010                      | 0.0225  |
| 0.020                       | -0.5466 | 0.020                    | -0.4672 | 0.020                      | -0.2947 |
| 0.040                       | -0.6339 | 0.040                    | -0.5410 | 0.040                      | -0.4055 |
| 0.060                       | -0.6349 | 0.060                    | -0.5417 | 0.060                      | -0.4492 |
| 0.080                       | -0.6300 | 0.080                    | -0.5508 | 0.080                      | -0.4545 |
| 0.100                       | -0.6182 | 0.100                    | -0.5461 | 0.100                      | -0.4564 |
| 0.125                       | -0.5417 | 0.125                    | -0.5349 | 0.125                      | -0.4507 |
| 0.150                       | -0.6065 | 0.150                    | -0.5522 | 0.150                      | -0.4512 |
| 0.175                       | -0.5830 | 0.175                    | -0.5683 | 0.175                      | -0.4631 |
| 0.200                       | -0.6171 | 0.200                    | -0.5740 | 0.200                      | -0.4637 |
| 0.250                       | -0.6067 | 0.250                    | -0.5929 | 0.250                      | -0.4883 |
| 0.300                       | -0.5905 | 0.300                    | -0.5726 | 0.300                      | -0.4828 |
| 0.350                       | -0.5431 | 0.350                    | -0.5387 | 0.350                      | -0.4859 |
| 0.400                       | -0.4979 | 0.400                    | -0.5295 | 0.400                      | -0.4713 |
| 0.450                       | -0.4527 | 0.450                    | -0.4868 | 0.450                      | -0.4495 |
| 0.500                       | -0.4374 | 0.500                    | -0.4747 | 0.500                      | -0.4262 |
| 0.550                       | -0.3885 | 0.550                    | -0.4735 | 0.550                      | -0.4362 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4599 | 0.005 | 0.4490 | 0.005 | 0.3474 |
| 0.010 | 0.2293 | 0.010 | 0.1724 | 0.010 | 0.0077 |

Fight 24 Test point 9

Sweep, deg = 24.9 Mach = 0.70 hp, ft = 9900. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 502.4 Rnpu = 4203000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8934  | 0.000                    | 0.9289  | 0.000                      | 0.9126  |
| 0.005                       | 0.2156  | 0.005                    | 0.2856  | 0.005                      | 0.5280  |
| 0.010                       | -0.0401 | 0.010                    | 0.0389  | 0.010                      | 0.2692  |
| 0.020                       | -0.2790 | 0.020                    | -0.2097 | 0.020                      | -0.0536 |
| 0.040                       | -0.4453 | 0.040                    | -0.3541 | 0.040                      | -0.2202 |
| 0.060                       | -0.4845 | 0.060                    | -0.4117 | 0.060                      | -0.3111 |
| 0.080                       | -0.5183 | 0.080                    | -0.4473 | 0.080                      | -0.3444 |
| 0.100                       | -0.5409 | 0.100                    | -0.4686 | 0.100                      | -0.3694 |
| 0.125                       | -0.5000 | 0.125                    | -0.4800 | 0.125                      | -0.3865 |
| 0.150                       | -0.5738 | 0.150                    | -0.5146 | 0.150                      | -0.4164 |
| 0.175                       | -0.5655 | 0.175                    | -0.5459 | 0.175                      | -0.4422 |
| 0.200                       | -0.6143 | 0.200                    | -0.5651 | 0.200                      | -0.4502 |
| 0.250                       | -0.6231 | 0.250                    | -0.6058 | 0.250                      | -0.4958 |
| 0.300                       | -0.6168 | 0.300                    | -0.6013 | 0.300                      | -0.5051 |
| 0.350                       | -0.5739 | 0.350                    | -0.5782 | 0.350                      | -0.5162 |
| 0.400                       | -0.5276 | 0.400                    | -0.5652 | 0.400                      | -0.4991 |
| 0.450                       | -0.4788 | 0.450                    | -0.5198 | 0.450                      | -0.4775 |
| 0.500                       | -0.4613 | 0.500                    | -0.5026 | 0.500                      | -0.4458 |
| 0.550                       | -0.4089 | 0.550                    | -0.4998 | 0.550                      | -0.4451 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2697 | 0.005 | 0.2595  | 0.005 | 0.1479  |
| 0.010 | 0.0069 | 0.010 | -0.0573 | 0.010 | -0.2419 |

Fight 24 Test point 10

Sweep, deg = 24.9 Mach = 0.70 hp, ft = 9900. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 499.7 Rnpu = 4201000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8935  | 0.000                    | 0.9268  | 0.000                      | 0.9178  |
| 0.005                       | 0.1393  | 0.005                    | 0.2134  | 0.005                      | 0.4715  |
| 0.010                       | -0.1183 | 0.010                    | -0.0451 | 0.010                      | 0.2026  |
| 0.020                       | -0.3565 | 0.020                    | -0.2869 | 0.020                      | -0.1315 |
| 0.040                       | -0.5138 | 0.040                    | -0.4290 | 0.040                      | -0.2927 |
| 0.060                       | -0.5398 | 0.060                    | -0.4580 | 0.060                      | -0.3782 |
| 0.080                       | -0.5694 | 0.080                    | -0.4934 | 0.080                      | -0.4010 |
| 0.100                       | -0.5848 | 0.100                    | -0.5111 | 0.100                      | -0.4133 |
| 0.125                       | -0.5339 | 0.125                    | -0.5206 | 0.125                      | -0.4149 |
| 0.150                       | -0.6056 | 0.150                    | -0.5513 | 0.150                      | -0.4447 |
| 0.175                       | -0.5975 | 0.175                    | -0.5791 | 0.175                      | -0.4739 |
| 0.200                       | -0.6471 | 0.200                    | -0.5957 | 0.200                      | -0.4785 |
| 0.250                       | -0.6490 | 0.250                    | -0.6330 | 0.250                      | -0.5199 |
| 0.300                       | -0.6361 | 0.300                    | -0.6233 | 0.300                      | -0.5225 |
| 0.350                       | -0.5862 | 0.350                    | -0.5957 | 0.350                      | -0.5313 |
| 0.400                       | -0.5403 | 0.400                    | -0.5802 | 0.400                      | -0.5124 |
| 0.450                       | -0.4878 | 0.450                    | -0.5312 | 0.450                      | -0.4897 |
| 0.500                       | -0.4677 | 0.500                    | -0.5095 | 0.500                      | -0.4549 |
| 0.550                       | -0.4152 | 0.550                    | -0.5030 | 0.550                      | -0.4536 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.3377 | 0.005 | 0.3242 | 0.005 | 0.2212  |
| 0.010         | 0.0855 | 0.010 | 0.0162 | 0.010 | -0.1572 |

Flight 24 Test point 11

Sweep, deg = 24.9 Mach = 0.70 hp, ft = 10100. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 494.9 Rnpu = 4170000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8780  | 0.000                    | 0.9114  | 0.000                      | 0.9111  |
| 0.005                       | -0.0493 | 0.005                    | 0.0303  | 0.005                      | 0.3305  |
| 0.010                       | -0.3129 | 0.010                    | -0.2326 | 0.010                      | 0.0310  |
| 0.020                       | -0.5484 | 0.020                    | -0.4725 | 0.020                      | -0.3141 |
| 0.040                       | -0.6896 | 0.040                    | -0.5884 | 0.040                      | -0.4511 |
| 0.060                       | -0.7103 | 0.060                    | -0.6178 | 0.060                      | -0.5115 |
| 0.080                       | -0.7083 | 0.080                    | -0.6365 | 0.080                      | -0.5238 |
| 0.100                       | -0.7137 | 0.100                    | -0.6350 | 0.100                      | -0.5326 |
| 0.125                       | -0.6278 | 0.125                    | -0.6321 | 0.125                      | -0.5257 |
| 0.150                       | -0.7083 | 0.150                    | -0.6542 | 0.150                      | -0.5404 |
| 0.175                       | -0.6820 | 0.175                    | -0.6751 | 0.175                      | -0.5617 |
| 0.200                       | -0.7337 | 0.200                    | -0.6885 | 0.200                      | -0.5579 |
| 0.250                       | -0.7266 | 0.250                    | -0.7186 | 0.250                      | -0.5922 |
| 0.300                       | -0.7033 | 0.300                    | -0.6954 | 0.300                      | -0.5862 |
| 0.350                       | -0.6390 | 0.350                    | -0.6522 | 0.350                      | -0.5823 |
| 0.400                       | -0.5797 | 0.400                    | -0.6260 | 0.400                      | -0.5567 |
| 0.450                       | -0.5190 | 0.450                    | -0.5693 | 0.450                      | -0.5246 |
| 0.500                       | -0.4949 | 0.500                    | -0.5360 | 0.500                      | -0.4814 |
| 0.550                       | -0.4341 | 0.550                    | -0.5257 | 0.550                      | -0.4693 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4853 | 0.005 | 0.4744 | 0.005 | 0.3843 |
| 0.010 | 0.2526 | 0.010 | 0.1953 | 0.010 | 0.0442 |

Flight 24 Test point 12

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = -0.1  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 499.9 Rnpu = 4199000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9614  | 0.000                    | 0.9929  | 0.000                      | 0.9732  |
| 0.005                       | 0.3099  | 0.005                    | 0.3830  | 0.005                      | 0.6226  |
| 0.010                       | 0.0403  | 0.010                    | 0.1170  | 0.010                      | 0.3612  |
| 0.020                       | -0.2194 | 0.020                    | -0.1464 | 0.020                      | 0.0148  |
| 0.040                       | -0.4128 | 0.040                    | -0.3022 | 0.040                      | -0.1779 |
| 0.060                       | -0.4782 | 0.060                    | -0.3782 | 0.060                      | -0.2844 |
| 0.080                       | -0.5147 | 0.080                    | -0.4240 | 0.080                      | -0.3247 |
| 0.100                       | -0.5310 | 0.100                    | -0.4500 | 0.100                      | -0.3543 |
| 0.125                       | -0.5022 | 0.125                    | -0.4700 | 0.125                      | -0.3747 |
| 0.150                       | -0.5788 | 0.150                    | -0.5091 | 0.150                      | -0.4115 |
| 0.175                       | -0.5797 | 0.175                    | -0.5456 | 0.175                      | -0.4373 |
| 0.200                       | -0.6346 | 0.200                    | -0.5708 | 0.200                      | -0.4428 |
| 0.250                       | -0.6486 | 0.250                    | -0.6221 | 0.250                      | -0.4983 |
| 0.300                       | -0.6416 | 0.300                    | -0.6250 | 0.300                      | -0.5115 |
| 0.350                       | -0.5957 | 0.350                    | -0.6041 | 0.350                      | -0.5320 |
| 0.400                       | -0.5487 | 0.400                    | -0.5953 | 0.400                      | -0.5191 |
| 0.450                       | -0.4955 | 0.450                    | -0.5470 | 0.450                      | -0.5027 |
| 0.500                       | -0.4781 | 0.500                    | -0.5258 | 0.500                      | -0.4680 |
| 0.550                       | -0.4251 | 0.550                    | -0.5202 | 0.550                      | -0.4587 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2420  | 0.005 | 0.2164  | 0.005 | 0.1002  |
| 0.010 | -0.0437 | 0.010 | -0.1373 | 0.010 | -0.3423 |



Flight 24 Test point 13

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = -4.9 QBAR, lb/ft<sup>2</sup> = 500.2 Rrho = 4200000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0138  | 0.000                    | 1.0464  | 0.000                      | 1.0223  |
| 0.005                       | 0.3763  | 0.005                    | 0.4727  | 0.005                      | 0.7142  |
| 0.010                       | 0.0986  | 0.010                    | 0.2029  | 0.010                      | 0.4536  |
| 0.020                       | -0.1703 | 0.020                    | -0.0734 | 0.020                      | 0.0998  |
| 0.040                       | -0.3782 | 0.040                    | -0.2470 | 0.040                      | -0.1073 |
| 0.060                       | -0.4521 | 0.060                    | -0.3258 | 0.060                      | -0.2250 |
| 0.080                       | -0.4945 | 0.080                    | -0.3782 | 0.080                      | -0.2724 |
| 0.100                       | -0.5159 | 0.100                    | -0.4097 | 0.100                      | -0.3052 |
| 0.125                       | -0.4905 | 0.125                    | -0.4345 | 0.125                      | -0.3330 |
| 0.150                       | -0.5746 | 0.150                    | -0.4801 | 0.150                      | -0.3778 |
| 0.175                       | -0.5759 | 0.175                    | -0.5201 | 0.175                      | -0.4101 |
| 0.200                       | -0.6364 | 0.200                    | -0.5500 | 0.200                      | -0.4296 |
| 0.250                       | -0.6512 | 0.250                    | -0.6105 | 0.250                      | -0.4871 |
| 0.300                       | -0.6465 | 0.300                    | -0.6143 | 0.300                      | -0.5100 |
| 0.350                       | -0.5957 | 0.350                    | -0.5964 | 0.350                      | -0.5289 |
| 0.400                       | -0.5446 | 0.400                    | -0.5936 | 0.400                      | -0.5179 |
| 0.450                       | -0.4895 | 0.450                    | -0.5388 | 0.450                      | -0.5036 |
| 0.500                       | -0.4735 | 0.500                    | -0.5236 | 0.500                      | -0.4503 |
| 0.550                       | -0.4194 | 0.550                    | -0.5130 | 0.550                      | -0.4416 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2472  | 0.005 | 0.1930  | 0.005 | 0.0587  |
| 0.010 | -0.0522 | 0.010 | -0.1844 | 0.010 | -0.4137 |

Flight 24 Test point 14

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 497.4 Rnpu = 4156000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.4106  | 0.000                    | 0.4466  | 0.000                      | 0.4320  |
| 0.005                       | -0.3476 | 0.005                    | -0.2648 | 0.005                      | 0.0013  |
| 0.010                       | -0.6213 | 0.010                    | -0.5383 | 0.010                      | -0.2769 |
| 0.020                       | -0.8823 | 0.020                    | -0.7989 | 0.020                      | -0.6334 |
| 0.040                       | -1.0676 | 0.040                    | -0.9451 | 0.040                      | -0.8178 |
| 0.060                       | -1.1213 | 0.060                    | -1.0118 | 0.060                      | -0.9141 |
| 0.080                       | -1.1491 | 0.080                    | -1.0523 | 0.080                      | -0.9474 |
| 0.100                       | -1.1553 | 0.100                    | -1.0741 | 0.100                      | -0.9697 |
| 0.125                       | -1.1108 | 0.125                    | -1.0864 | 0.125                      | -0.9874 |
| 0.150                       | -1.1953 | 0.150                    | -1.1219 | 0.150                      | -1.0214 |
| 0.175                       | -1.1884 | 0.175                    | -1.1558 | 0.175                      | -1.0484 |
| 0.200                       | -1.2452 | 0.200                    | -1.1773 | 0.200                      | -1.0477 |
| 0.250                       | -1.2478 | 0.250                    | -1.2249 | 0.250                      | -1.0956 |
| 0.300                       | -1.2344 | 0.300                    | -1.2185 | 0.300                      | -1.1015 |
| 0.350                       | -1.1777 | 0.350                    | -1.1932 | 0.350                      | -1.1146 |
| 0.400                       | -1.1272 | 0.400                    | -1.1776 | 0.400                      | -1.0941 |
| 0.450                       | -1.0713 | 0.450                    | -1.1225 | 0.450                      | -1.0748 |
| 0.500                       | -1.0514 | 0.500                    | -1.0968 | 0.500                      | -1.0377 |
| 0.550                       | -0.9937 | 0.550                    | -1.0892 | 0.550                      | -1.0267 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | -0.2121 | 0.005 | -0.2379 | 0.005 | -0.3520 |
| 0.010 | -0.4891 | 0.010 | -0.5742 | 0.010 | -0.7681 |

Flight 24 Test point 15

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 497.6 Rnpu = 4183000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9454  | 0.000                    | 0.9831  | 0.000                      | 0.9827  |
| 0.005                       | -0.0120 | 0.005                    | 0.0751  | 0.005                      | 0.3844  |
| 0.010                       | -0.2944 | 0.010                    | -0.2116 | 0.010                      | 0.0754  |
| 0.020                       | -0.5566 | 0.020                    | -0.4636 | 0.020                      | -0.2966 |
| 0.040                       | -0.7223 | 0.040                    | -0.5866 | 0.040                      | -0.4518 |
| 0.060                       | -0.7558 | 0.060                    | -0.6164 | 0.060                      | -0.5304 |
| 0.080                       | -0.7594 | 0.080                    | -0.6644 | 0.080                      | -0.5438 |
| 0.100                       | -0.7597 | 0.100                    | -0.6800 | 0.100                      | -0.5548 |
| 0.125                       | -0.6742 | 0.125                    | -0.6656 | 0.125                      | -0.5556 |
| 0.150                       | -0.7653 | 0.150                    | -0.6900 | 0.150                      | -0.5810 |
| 0.175                       | -0.7333 | 0.175                    | -0.7161 | 0.175                      | -0.6015 |
| 0.200                       | -0.8013 | 0.200                    | -0.7355 | 0.200                      | -0.5945 |
| 0.250                       | -0.7901 | 0.250                    | -0.7765 | 0.250                      | -0.6267 |
| 0.300                       | -0.7547 | 0.300                    | -0.7525 | 0.300                      | -0.6215 |
| 0.350                       | -0.6835 | 0.350                    | -0.7053 | 0.350                      | -0.6227 |
| 0.400                       | -0.6183 | 0.400                    | -0.6740 | 0.400                      | -0.5901 |
| 0.450                       | -0.5503 | 0.450                    | -0.6085 | 0.450                      | -0.5609 |
| 0.500                       | -0.5221 | 0.500                    | -0.5735 | 0.500                      | -0.5116 |
| 0.550                       | -0.4583 | 0.550                    | -0.5589 | 0.550                      | -0.4896 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5138 | 0.005 | 0.5005 | 0.005 | 0.4058 |
| 0.010 | 0.2614 | 0.010 | 0.1988 | 0.010 | 0.0389 |

Flight 24 Test point 16

Sweep, deg = 20.0 Mach = 0.71 hp, ft = 20000. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 342.5 Rnpu = 3006000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9622  | 0.000                    | 1.0028  | 0.000                      | 0.9922  |
| 0.005                       | 0.1626  | 0.005                    | 0.2377  | 0.005                      | 0.5109  |
| 0.010                       | -0.1138 | 0.010                    | -0.0365 | 0.010                      | 0.2186  |
| 0.020                       | -0.3726 | 0.020                    | -0.2972 | 0.020                      | -0.1365 |
| 0.040                       | -0.5586 | 0.040                    | -0.4594 | 0.040                      | -0.3157 |
| 0.060                       | -0.6132 | 0.060                    | -0.5035 | 0.060                      | -0.4092 |
| 0.080                       | -0.6397 | 0.080                    | -0.5536 | 0.080                      | -0.4384 |
| 0.100                       | -0.6463 | 0.100                    | -0.5788 | 0.100                      | -0.4601 |
| 0.125                       | -0.5936 | 0.125                    | -0.5760 | 0.125                      | -0.4758 |
| 0.150                       | -0.6322 | 0.150                    | -0.6100 | 0.150                      | -0.5117 |
| 0.175                       | -0.6718 | 0.175                    | -0.6464 | 0.175                      | -0.5364 |
| 0.200                       | -0.7346 | 0.200                    | -0.6695 | 0.200                      | -0.5432 |
| 0.250                       | -0.7353 | 0.250                    | -0.7256 | 0.250                      | -0.5890 |
| 0.300                       | -0.7172 | 0.300                    | -0.7051 | 0.300                      | -0.5945 |
| 0.350                       | -0.6497 | 0.350                    | -0.6595 | 0.350                      | -0.5969 |
| 0.400                       | -0.5889 | 0.400                    | -0.6481 | 0.400                      | -0.5623 |
| 0.450                       | -0.5274 | 0.450                    | -0.5814 | 0.450                      | -0.5308 |
| 0.500                       | -0.5058 | 0.500                    | -0.5559 | 0.500                      | -0.4929 |
| 0.550                       | -0.4424 | 0.550                    | -0.5406 | 0.550                      | -0.4719 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3880 | 0.005 | 0.3794 | 0.005 | 0.2844  |
| 0.010 | 0.1214 | 0.010 | 0.0568 | 0.010 | -0.1178 |

Flight 24 Test point 17

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 19900. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 334.1 Rnpu = 2966000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0115  | 0.000                    | 1.0598  | 0.000                      | 1.0512  |
| 0.005                       | 0.1289  | 0.005                    | 0.2333  | 0.005                      | 0.5338  |
| 0.010                       | -0.1626 | 0.010                    | -0.0537 | 0.010                      | 0.2312  |
| 0.020                       | -0.4295 | 0.020                    | -0.3215 | 0.020                      | -0.1369 |
| 0.040                       | -0.6145 | 0.040                    | -0.4740 | 0.040                      | -0.3171 |
| 0.060                       | -0.6642 | 0.060                    | -0.5184 | 0.060                      | -0.4133 |
| 0.080                       | -0.6862 | 0.080                    | -0.5648 | 0.080                      | -0.4424 |
| 0.100                       | -0.6993 | 0.100                    | -0.5917 | 0.100                      | -0.4657 |
| 0.125                       | -0.6253 | 0.125                    | -0.5887 | 0.125                      | -0.4760 |
| 0.150                       | -0.7202 | 0.150                    | -0.6249 | 0.150                      | -0.5102 |
| 0.175                       | -0.6993 | 0.175                    | -0.6620 | 0.175                      | -0.5325 |
| 0.200                       | -0.7633 | 0.200                    | -0.6851 | 0.200                      | -0.5420 |
| 0.250                       | -0.7586 | 0.250                    | -0.7372 | 0.250                      | -0.5892 |
| 0.300                       | -0.7312 | 0.300                    | -0.7230 | 0.300                      | -0.5955 |
| 0.350                       | -0.6566 | 0.350                    | -0.6701 | 0.350                      | -0.6005 |
| 0.400                       | -0.5914 | 0.400                    | -0.6534 | 0.400                      | -0.5811 |
| 0.450                       | -0.5243 | 0.450                    | -0.5790 | 0.450                      | -0.5257 |
| 0.500                       | -0.5009 | 0.500                    | -0.5554 | 0.500                      | -0.4885 |
| 0.550                       | -0.4308 | 0.550                    | -0.5335 | 0.550                      | -0.4602 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4783 | 0.005 | 0.4478 | 0.005 | 0.3361  |
| 0.010 | 0.2060 | 0.010 | 0.1175 | 0.010 | -0.0735 |

Fight 24 Test point 18

Sweep, deg = 20.0 Mach = 0.71 hp, ft = 20500. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 330.7 Rnpu = 2937000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9643  | 0.000                    | 1.0054  | 0.000                      | 0.9933  |
| 0.005                       | 0.2425  | 0.005                    | 0.3161  | 0.005                      | 0.5742  |
| 0.010                       | -0.0259 | 0.010                    | 0.0542  | 0.010                      | 0.2975  |
| 0.020                       | -0.2840 | 0.020                    | -0.2117 | 0.020                      | -0.0533 |
| 0.040                       | -0.4753 | 0.040                    | -0.3845 | 0.040                      | -0.2420 |
| 0.060                       | -0.5376 | 0.060                    | -0.4365 | 0.060                      | -0.3396 |
| 0.080                       | -0.5698 | 0.080                    | -0.4884 | 0.080                      | -0.3754 |
| 0.100                       | -0.5862 | 0.100                    | -0.5111 | 0.100                      | -0.4030 |
| 0.125                       | -0.5420 | 0.125                    | -0.5259 | 0.125                      | -0.4199 |
| 0.150                       | -0.6262 | 0.150                    | -0.5577 | 0.150                      | -0.4592 |
| 0.175                       | -0.6204 | 0.175                    | -0.5966 | 0.175                      | -0.4844 |
| 0.200                       | -0.6796 | 0.200                    | -0.6196 | 0.200                      | -0.4935 |
| 0.250                       | -0.6849 | 0.250                    | -0.6702 | 0.250                      | -0.5452 |
| 0.300                       | -0.6751 | 0.300                    | -0.6622 | 0.300                      | -0.5553 |
| 0.350                       | -0.6210 | 0.350                    | -0.6229 | 0.350                      | -0.5606 |
| 0.400                       | -0.5660 | 0.400                    | -0.6199 | 0.400                      | -0.5387 |
| 0.450                       | -0.5083 | 0.450                    | -0.5552 | 0.450                      | -0.5103 |
| 0.500                       | -0.4863 | 0.500                    | -0.5382 | 0.500                      | -0.4729 |
| 0.550                       | -0.4268 | 0.550                    | -0.5240 | 0.550                      | -0.4551 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3152 | 0.005 | 0.3035  | 0.005 | 0.1994  |
| 0.010 | 0.0386 | 0.010 | -0.0398 | 0.010 | -0.2235 |

Flight 24 Test point 19

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 19900. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.6 QBAR, lb/ft<sup>2</sup> = 338.8 Rnpu = 3008000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9497  | 0.000                    | 0.9892  | 0.000                      | 0.9893  |
| 0.005                       | -0.0104 | 0.005                    | 0.0700  | 0.005                      | 0.3836  |
| 0.010                       | -0.2942 | 0.010                    | -0.2103 | 0.010                      | 0.0690  |
| 0.020                       | -0.5518 | 0.020                    | -0.4683 | 0.020                      | -0.2985 |
| 0.040                       | -0.7225 | 0.040                    | -0.5987 | 0.040                      | -0.4595 |
| 0.060                       | -0.7611 | 0.060                    | -0.6254 | 0.060                      | -0.5370 |
| 0.080                       | -0.7631 | 0.080                    | -0.6772 | 0.080                      | -0.5507 |
| 0.100                       | -0.7723 | 0.100                    | -0.6939 | 0.100                      | -0.5617 |
| 0.125                       | -0.6778 | 0.125                    | -0.6703 | 0.125                      | -0.5642 |
| 0.150                       | -0.7768 | 0.150                    | -0.7001 | 0.150                      | -0.5917 |
| 0.175                       | -0.7442 | 0.175                    | -0.7331 | 0.175                      | -0.6089 |
| 0.200                       | -0.8127 | 0.200                    | -0.7483 | 0.200                      | -0.6124 |
| 0.250                       | -0.7953 | 0.250                    | -0.7954 | 0.250                      | -0.6442 |
| 0.300                       | -0.7660 | 0.300                    | -0.7628 | 0.300                      | -0.6412 |
| 0.350                       | -0.6889 | 0.350                    | -0.7045 | 0.350                      | -0.6314 |
| 0.400                       | -0.6171 | 0.400                    | -0.6799 | 0.400                      | -0.5899 |
| 0.450                       | -0.5484 | 0.450                    | -0.6041 | 0.450                      | -0.5620 |
| 0.500                       | -0.5209 | 0.500                    | -0.5751 | 0.500                      | -0.5093 |
| 0.550                       | -0.4509 | 0.550                    | -0.5508 | 0.550                      | -0.4799 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5164 | 0.005 | 0.5143 | 0.005 | 0.4245 |
| 0.010 | 0.2682 | 0.010 | 0.2151 | 0.010 | 0.0558 |

Fight 24 Test point 20

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 335.6 Rnpu = 2986000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8875  | 0.000                    | 0.9239  | 0.000                      | 0.9167  |
| 0.005                       | 0.0694  | 0.005                    | 0.1298  | 0.005                      | 0.4051  |
| 0.010                       | -0.1902 | 0.010                    | -0.1248 | 0.010                      | 0.1222  |
| 0.020                       | -0.4223 | 0.020                    | -0.3597 | 0.020                      | -0.2103 |
| 0.040                       | -0.5757 | 0.040                    | -0.4936 | 0.040                      | -0.3654 |
| 0.060                       | -0.6127 | 0.060                    | -0.5191 | 0.060                      | -0.4357 |
| 0.080                       | -0.6291 | 0.080                    | -0.5611 | 0.080                      | -0.4525 |
| 0.100                       | -0.6297 | 0.100                    | -0.5693 | 0.100                      | -0.4689 |
| 0.125                       | -0.5633 | 0.125                    | -0.5679 | 0.125                      | -0.4753 |
| 0.150                       | -0.6441 | 0.150                    | -0.5898 | 0.150                      | -0.4978 |
| 0.175                       | -0.6293 | 0.175                    | -0.6171 | 0.175                      | -0.5203 |
| 0.200                       | -0.6772 | 0.200                    | -0.6299 | 0.200                      | -0.5143 |
| 0.250                       | -0.6788 | 0.250                    | -0.6677 | 0.250                      | -0.5498 |
| 0.300                       | -0.6599 | 0.300                    | -0.6509 | 0.300                      | -0.5466 |
| 0.350                       | -0.6032 | 0.350                    | -0.6112 | 0.350                      | -0.5498 |
| 0.400                       | -0.5509 | 0.400                    | -0.6017 | 0.400                      | -0.5281 |
| 0.450                       | -0.4982 | 0.450                    | -0.5397 | 0.450                      | -0.5044 |
| 0.500                       | -0.4762 | 0.500                    | -0.5168 | 0.500                      | -0.4632 |
| 0.550                       | -0.4151 | 0.550                    | -0.5048 | 0.550                      | -0.4524 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3950 | 0.005 | 0.3951 | 0.005 | 0.3073  |
| 0.010 | 0.1448 | 0.010 | 0.1014 | 0.010 | -0.0559 |



Flight 24 Test point 21

Sweep, deg = 25.2 Mach = 0.70 hp, ft = 20500. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 329.6 Rnpu = 2935000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8877  | 0.000                    | 0.9284  | 0.000                      | 0.9173  |
| 0.005                       | 0.1593  | 0.005                    | 0.2213  | 0.005                      | 0.4775  |
| 0.010                       | -0.0964 | 0.010                    | -0.0244 | 0.010                      | 0.2069  |
| 0.020                       | -0.3311 | 0.020                    | -0.2690 | 0.020                      | -0.1197 |
| 0.040                       | -0.4926 | 0.040                    | -0.4165 | 0.040                      | -0.2861 |
| 0.060                       | -0.5393 | 0.060                    | -0.4568 | 0.060                      | -0.3689 |
| 0.080                       | -0.5615 | 0.080                    | -0.4963 | 0.080                      | -0.3940 |
| 0.100                       | -0.5721 | 0.100                    | -0.5036 | 0.100                      | -0.4148 |
| 0.125                       | -0.5237 | 0.125                    | -0.5060 | 0.125                      | -0.4253 |
| 0.150                       | -0.5976 | 0.150                    | -0.5399 | 0.150                      | -0.4495 |
| 0.175                       | -0.5849 | 0.175                    | -0.5699 | 0.175                      | -0.4719 |
| 0.200                       | -0.6362 | 0.200                    | -0.5847 | 0.200                      | -0.4720 |
| 0.250                       | -0.6386 | 0.250                    | -0.6278 | 0.250                      | -0.5199 |
| 0.300                       | -0.6269 | 0.300                    | -0.6150 | 0.300                      | -0.5163 |
| 0.350                       | -0.5829 | 0.350                    | -0.5826 | 0.350                      | -0.5225 |
| 0.400                       | -0.5329 | 0.400                    | -0.5770 | 0.400                      | -0.5056 |
| 0.450                       | -0.4826 | 0.450                    | -0.5256 | 0.450                      | -0.4838 |
| 0.500                       | -0.4648 | 0.500                    | -0.5066 | 0.500                      | -0.4494 |
| 0.550                       | -0.4046 | 0.550                    | -0.4942 | 0.550                      | -0.4411 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3192 | 0.005 | 0.3199 | 0.005 | 0.2220  |
| 0.010 | 0.0628 | 0.010 | 0.0086 | 0.010 | -0.1552 |

Flight 24 Test point 22

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 19800. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 337.7 Rnpu = 3001000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8686  | 0.000                    | 0.9057  | 0.000                      | 0.9049  |
| 0.005                       | -0.0529 | 0.005                    | 0.0075  | 0.005                      | 0.3082  |
| 0.010                       | -0.3147 | 0.010                    | -0.2522 | 0.010                      | 0.0061  |
| 0.020                       | -0.5436 | 0.020                    | -0.4810 | 0.020                      | -0.3359 |
| 0.040                       | -0.6819 | 0.040                    | -0.5971 | 0.040                      | -0.4671 |
| 0.060                       | -0.7075 | 0.060                    | -0.6066 | 0.060                      | -0.5303 |
| 0.080                       | -0.7076 | 0.080                    | -0.6471 | 0.080                      | -0.5400 |
| 0.100                       | -0.7095 | 0.100                    | -0.6491 | 0.100                      | -0.5460 |
| 0.125                       | -0.6224 | 0.125                    | -0.6331 | 0.125                      | -0.5457 |
| 0.150                       | -0.7037 | 0.150                    | -0.6506 | 0.150                      | -0.5631 |
| 0.175                       | -0.6786 | 0.175                    | -0.6743 | 0.175                      | -0.5769 |
| 0.200                       | -0.7275 | 0.200                    | -0.6863 | 0.200                      | -0.5646 |
| 0.250                       | -0.7192 | 0.250                    | -0.7215 | 0.250                      | -0.5899 |
| 0.300                       | -0.6969 | 0.300                    | -0.6928 | 0.300                      | -0.5845 |
| 0.350                       | -0.6377 | 0.350                    | -0.6433 | 0.350                      | -0.5821 |
| 0.400                       | -0.5733 | 0.400                    | -0.6250 | 0.400                      | -0.5547 |
| 0.450                       | -0.5138 | 0.450                    | -0.5606 | 0.450                      | -0.5225 |
| 0.500                       | -0.4913 | 0.500                    | -0.5342 | 0.500                      | -0.4762 |
| 0.550                       | -0.4275 | 0.550                    | -0.5190 | 0.550                      | -0.4614 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.4736 | 0.005 | 0.4788 | 0.005 | 0.4024 |
| 0.010         | 0.2387 | 0.010 | 0.2039 | 0.010 | 0.0668 |

Flight 24 Test point 23

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 331.6 Rnpu = 2966000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7903  | 0.000                    | 0.8218  | 0.000                      | 0.8242  |
| 0.005                       | -0.0496 | 0.005                    | 0.0005  | 0.005                      | 0.2766  |
| 0.010                       | -0.2861 | 0.010                    | -0.2316 | 0.010                      | 0.0010  |
| 0.020                       | -0.4880 | 0.020                    | -0.4380 | 0.020                      | -0.3016 |
| 0.040                       | -0.6018 | 0.040                    | -0.5430 | 0.040                      | -0.4193 |
| 0.060                       | -0.6031 | 0.060                    | -0.5475 | 0.060                      | -0.4723 |
| 0.080                       | -0.6129 | 0.080                    | -0.5661 | 0.080                      | -0.4755 |
| 0.100                       | -0.6133 | 0.100                    | -0.5586 | 0.100                      | -0.4734 |
| 0.125                       | -0.5469 | 0.125                    | -0.5531 | 0.125                      | -0.4701 |
| 0.150                       | -0.6147 | 0.150                    | -0.5714 | 0.150                      | -0.4839 |
| 0.175                       | -0.5946 | 0.175                    | -0.5895 | 0.175                      | -0.5042 |
| 0.200                       | -0.6340 | 0.200                    | -0.5957 | 0.200                      | -0.4992 |
| 0.250                       | -0.6263 | 0.250                    | -0.6228 | 0.250                      | -0.5242 |
| 0.300                       | -0.6064 | 0.300                    | -0.6004 | 0.300                      | -0.5146 |
| 0.350                       | -0.5602 | 0.350                    | -0.5595 | 0.350                      | -0.5116 |
| 0.400                       | -0.5102 | 0.400                    | -0.5505 | 0.400                      | -0.4902 |
| 0.450                       | -0.4622 | 0.450                    | -0.4982 | 0.450                      | -0.4636 |
| 0.500                       | -0.4452 | 0.500                    | -0.4817 | 0.500                      | -0.4308 |
| 0.550                       | -0.3913 | 0.550                    | -0.4672 | 0.550                      | -0.4271 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4054 | 0.005 | 0.4176 | 0.005 | 0.3455 |
| 0.010 | 0.1859 | 0.010 | 0.1599 | 0.010 | 0.0315 |

Flight 24 Test point 24

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 19800. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 337.1 Rnpu = 3004000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8037  | 0.000                    | 0.8417  | 0.000                      | 0.8339  |
| 0.005                       | 0.1119  | 0.005                    | 0.1575  | 0.005                      | 0.4042  |
| 0.010                       | -0.1243 | 0.010                    | -0.0642 | 0.010                      | 0.1523  |
| 0.020                       | -0.3281 | 0.020                    | -0.2816 | 0.020                      | -0.1449 |
| 0.040                       | -0.4529 | 0.040                    | -0.3914 | 0.040                      | -0.2858 |
| 0.060                       | -0.4887 | 0.060                    | -0.4326 | 0.060                      | -0.3564 |
| 0.080                       | -0.5157 | 0.080                    | -0.4635 | 0.080                      | -0.3764 |
| 0.100                       | -0.5236 | 0.100                    | -0.4711 | 0.100                      | -0.3819 |
| 0.125                       | -0.4839 | 0.125                    | -0.4707 | 0.125                      | -0.3928 |
| 0.150                       | -0.5451 | 0.150                    | -0.4950 | 0.150                      | -0.4155 |
| 0.175                       | -0.5320 | 0.175                    | -0.5188 | 0.175                      | -0.4351 |
| 0.200                       | -0.5742 | 0.200                    | -0.5341 | 0.200                      | -0.4360 |
| 0.250                       | -0.5728 | 0.250                    | -0.5688 | 0.250                      | -0.4718 |
| 0.300                       | -0.5633 | 0.300                    | -0.5511 | 0.300                      | -0.4719 |
| 0.350                       | -0.5264 | 0.350                    | -0.5184 | 0.350                      | -0.4757 |
| 0.400                       | -0.4833 | 0.400                    | -0.5138 | 0.400                      | -0.4597 |
| 0.450                       | -0.4395 | 0.450                    | -0.4704 | 0.450                      | -0.4366 |
| 0.500                       | -0.4238 | 0.500                    | -0.4594 | 0.500                      | -0.4110 |
| 0.550                       | -0.3729 | 0.550                    | -0.4535 | 0.550                      | -0.4125 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.2860 | 0.005 | 0.2936 | 0.005 | 0.2092  |
| 0.010 | 0.0589 | 0.010 | 0.0139 | 0.010 | -0.1315 |

Flight 24 Test point 25

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 19800. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 336.1 Rnpu = 3006000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7811  | 0.000                    | 0.8154  | 0.000                      | 0.8190  |
| 0.005                       | -0.0983 | 0.005                    | -0.0465 | 0.005                      | 0.2409  |
| 0.010                       | -0.3366 | 0.010                    | -0.2779 | 0.010                      | -0.0426 |
| 0.020                       | -0.5334 | 0.020                    | -0.4880 | 0.020                      | -0.3460 |
| 0.040                       | -0.6447 | 0.040                    | -0.5789 | 0.040                      | -0.4567 |
| 0.060                       | -0.6387 | 0.060                    | -0.5752 | 0.060                      | -0.5032 |
| 0.080                       | -0.6484 | 0.080                    | -0.6000 | 0.080                      | -0.5030 |
| 0.100                       | -0.6422 | 0.100                    | -0.5967 | 0.100                      | -0.5082 |
| 0.125                       | -0.5703 | 0.125                    | -0.5812 | 0.125                      | -0.4977 |
| 0.150                       | -0.6395 | 0.150                    | -0.5978 | 0.150                      | -0.5115 |
| 0.175                       | -0.6149 | 0.175                    | -0.6135 | 0.175                      | -0.5267 |
| 0.200                       | -0.6547 | 0.200                    | -0.6218 | 0.200                      | -0.5185 |
| 0.250                       | -0.6458 | 0.250                    | -0.6436 | 0.250                      | -0.5410 |
| 0.300                       | -0.6275 | 0.300                    | -0.6218 | 0.300                      | -0.5275 |
| 0.350                       | -0.5753 | 0.350                    | -0.5781 | 0.350                      | -0.5291 |
| 0.400                       | -0.5237 | 0.400                    | -0.5624 | 0.400                      | -0.5017 |
| 0.450                       | -0.4700 | 0.450                    | -0.5091 | 0.450                      | -0.4749 |
| 0.500                       | -0.4519 | 0.500                    | -0.4869 | 0.500                      | -0.4291 |
| 0.550                       | -0.3965 | 0.550                    | -0.4775 | 0.550                      | -0.4353 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4362 | 0.005 | 0.4517 | 0.005 | 0.3815 |
| 0.010 | 0.2237 | 0.010 | 0.2002 | 0.010 | 0.0760 |

Flight 24 Test point 26

Sweep, deg = 30.0 Mach = 0.75 hp, ft = 19900. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 385.3 Rnpu = 3231000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8100  | 0.000                    | 0.8462  | 0.000                      | 0.8360  |
| 0.005                       | 0.1157  | 0.005                    | 0.1540  | 0.005                      | 0.3894  |
| 0.010                       | -0.1220 | 0.010                    | -0.0735 | 0.010                      | 0.1345  |
| 0.020                       | -0.3390 | 0.020                    | -0.2965 | 0.020                      | -0.1726 |
| 0.040                       | -0.4807 | 0.040                    | -0.4191 | 0.040                      | -0.3253 |
| 0.060                       | -0.5350 | 0.060                    | -0.4680 | 0.060                      | -0.3975 |
| 0.080                       | -0.5591 | 0.080                    | -0.5282 | 0.080                      | -0.4151 |
| 0.100                       | -0.5764 | 0.100                    | -0.5294 | 0.100                      | -0.4348 |
| 0.125                       | -0.5288 | 0.125                    | -0.5257 | 0.125                      | -0.4543 |
| 0.150                       | -0.6018 | 0.150                    | -0.5572 | 0.150                      | -0.4808 |
| 0.175                       | -0.5948 | 0.175                    | -0.5928 | 0.175                      | -0.5052 |
| 0.200                       | -0.6521 | 0.200                    | -0.6080 | 0.200                      | -0.5012 |
| 0.250                       | -0.6427 | 0.250                    | -0.6640 | 0.250                      | -0.5454 |
| 0.300                       | -0.6490 | 0.300                    | -0.6473 | 0.300                      | -0.5477 |
| 0.350                       | -0.6023 | 0.350                    | -0.6027 | 0.350                      | -0.5468 |
| 0.400                       | -0.5437 | 0.400                    | -0.5807 | 0.400                      | -0.5179 |
| 0.450                       | -0.4847 | 0.450                    | -0.5239 | 0.450                      | -0.4861 |
| 0.500                       | -0.4634 | 0.500                    | -0.5016 | 0.500                      | -0.4438 |
| 0.550                       | -0.4053 | 0.550                    | -0.4866 | 0.550                      | -0.4312 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.3142 | 0.005 | 0.3263 | 0.005 | 0.2553  |
| 0.010         | 0.0828 | 0.010 | 0.0452 | 0.010 | -0.0833 |

Fight 24 Test point 27

Sweep, deg = 30.0 Mach = 0.75 hp, ft = 20100. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 379.6 Rnpu = 3200000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7923  | 0.000                    | 0.8245  | 0.000                      | 0.8218  |
| 0.005                       | -0.0523 | 0.005                    | -0.0173 | 0.005                      | 0.2477  |
| 0.010                       | -0.2930 | 0.010                    | -0.2549 | 0.010                      | -0.0355 |
| 0.020                       | -0.5103 | 0.020                    | -0.4728 | 0.020                      | -0.3571 |
| 0.040                       | -0.6251 | 0.040                    | -0.5951 | 0.040                      | -0.4854 |
| 0.060                       | -0.6821 | 0.060                    | -0.5758 | 0.060                      | -0.5449 |
| 0.080                       | -0.6441 | 0.080                    | -0.6683 | 0.080                      | -0.5546 |
| 0.100                       | -0.7046 | 0.100                    | -0.7230 | 0.100                      | -0.5452 |
| 0.125                       | -0.5981 | 0.125                    | -0.6207 | 0.125                      | -0.5516 |
| 0.150                       | -0.7060 | 0.150                    | -0.6414 | 0.150                      | -0.6011 |
| 0.175                       | -0.6744 | 0.175                    | -0.6720 | 0.175                      | -0.5966 |
| 0.200                       | -0.7239 | 0.200                    | -0.7183 | 0.200                      | -0.5797 |
| 0.250                       | -0.7176 | 0.250                    | -0.7077 | 0.250                      | -0.6147 |
| 0.300                       | -0.7160 | 0.300                    | -0.7114 | 0.300                      | -0.6130 |
| 0.350                       | -0.6513 | 0.350                    | -0.6498 | 0.350                      | -0.5961 |
| 0.400                       | -0.5766 | 0.400                    | -0.6180 | 0.400                      | -0.5571 |
| 0.450                       | -0.5119 | 0.450                    | -0.5549 | 0.450                      | -0.5144 |
| 0.500                       | -0.4820 | 0.500                    | -0.5238 | 0.500                      | -0.4619 |
| 0.550                       | -0.4203 | 0.550                    | -0.5039 | 0.550                      | -0.4432 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4310 | 0.005 | 0.4515 | 0.005 | 0.3918 |
| 0.010 | 0.2189 | 0.010 | 0.1997 | 0.010 | 0.0930 |

Flight 24 Test point 28

Sweep, deg = 25.0 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 382.9 Rnpu = 3224000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9023  | 0.000                    | 0.9387  | 0.000                      | 0.9262  |
| 0.005                       | 0.1872  | 0.005                    | 0.2389  | 0.005                      | 0.4795  |
| 0.010                       | -0.0690 | 0.010                    | -0.0086 | 0.010                      | 0.2082  |
| 0.020                       | -0.3122 | 0.020                    | -0.2578 | 0.020                      | -0.1275 |
| 0.040                       | -0.4974 | 0.040                    | -0.4218 | 0.040                      | -0.3042 |
| 0.060                       | -0.5626 | 0.060                    | -0.4579 | 0.060                      | -0.3969 |
| 0.080                       | -0.5795 | 0.080                    | -0.5351 | 0.080                      | -0.4289 |
| 0.100                       | -0.6193 | 0.100                    | -0.5513 | 0.100                      | -0.4531 |
| 0.125                       | -0.5635 | 0.125                    | -0.5445 | 0.125                      | -0.4721 |
| 0.150                       | -0.6603 | 0.150                    | -0.5844 | 0.150                      | -0.5091 |
| 0.175                       | -0.6399 | 0.175                    | -0.6274 | 0.175                      | -0.5453 |
| 0.200                       | -0.7128 | 0.200                    | -0.6681 | 0.200                      | -0.5376 |
| 0.250                       | -0.7599 | 0.250                    | -0.7353 | 0.250                      | -0.5909 |
| 0.300                       | -0.7128 | 0.300                    | -0.7702 | 0.300                      | -0.6119 |
| 0.350                       | -0.6808 | 0.350                    | -0.6776 | 0.350                      | -0.6135 |
| 0.400                       | -0.5997 | 0.400                    | -0.6460 | 0.400                      | -0.5720 |
| 0.450                       | -0.5303 | 0.450                    | -0.5795 | 0.450                      | -0.5391 |
| 0.500                       | -0.4990 | 0.500                    | -0.5493 | 0.500                      | -0.4827 |
| 0.550                       | -0.4315 | 0.550                    | -0.5265 | 0.550                      | -0.4536 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3349 | 0.005 | 0.3375 | 0.005 | 0.2566  |
| 0.010 | 0.0785 | 0.010 | 0.0258 | 0.010 | -0.1191 |



Flight 24 Test point 29

Sweep, deg = 25.0 Mach = 0.76 hp, ft = 20000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 387.9 Rnpu = 3244000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9011  | 0.000                    | 0.9371  | 0.000                      | 0.9267  |
| 0.005                       | 0.1842  | 0.005                    | 0.2367  | 0.005                      | 0.4782  |
| 0.010                       | -0.0719 | 0.010                    | -0.0111 | 0.010                      | 0.2056  |
| 0.020                       | -0.3149 | 0.020                    | -0.3641 | 0.020                      | -0.1315 |
| 0.040                       | -0.5032 | 0.040                    | -0.4239 | 0.040                      | -0.3092 |
| 0.060                       | -0.5775 | 0.060                    | -0.4586 | 0.060                      | -0.4075 |
| 0.080                       | -0.5772 | 0.080                    | -0.5391 | 0.080                      | -0.4367 |
| 0.100                       | -0.6201 | 0.100                    | -0.5578 | 0.100                      | -0.4578 |
| 0.125                       | -0.5626 | 0.125                    | -0.5544 | 0.125                      | -0.4773 |
| 0.150                       | -0.6700 | 0.150                    | -0.5941 | 0.150                      | -0.5229 |
| 0.175                       | -0.6380 | 0.175                    | -0.6310 | 0.175                      | -0.5605 |
| 0.200                       | -0.7379 | 0.200                    | -0.6700 | 0.200                      | -0.5524 |
| 0.250                       | -0.7745 | 0.250                    | -0.7935 | 0.250                      | -0.6081 |
| 0.300                       | -0.7473 | 0.300                    | -0.7702 | 0.300                      | -0.6185 |
| 0.350                       | -0.7110 | 0.350                    | -0.6867 | 0.350                      | -0.6711 |
| 0.400                       | -0.5952 | 0.400                    | -0.6589 | 0.400                      | -0.5794 |
| 0.450                       | -0.5333 | 0.450                    | -0.5880 | 0.450                      | -0.5463 |
| 0.500                       | -0.5031 | 0.500                    | -0.5544 | 0.500                      | -0.4888 |
| 0.550                       | -0.4346 | 0.550                    | -0.5271 | 0.550                      | -0.4572 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3419 | 0.005 | 0.3395 | 0.005 | 0.2636  |
| 0.010 | 0.0844 | 0.010 | 0.0284 | 0.010 | -0.1147 |

Flight 24 Test point 30

Sweep, deg = 25.0 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 378.6 Rnpu = 3186000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8854  | 0.000                    | 0.9175  | 0.000                      | 0.9154  |
| 0.005                       | -0.0066 | 0.005                    | 0.0405  | 0.005                      | 0.3116  |
| 0.010                       | -0.2692 | 0.010                    | -0.2223 | 0.010                      | 0.0112  |
| 0.020                       | -0.5166 | 0.020                    | -0.4662 | 0.020                      | -0.3462 |
| 0.040                       | -0.6957 | 0.040                    | -0.6150 | 0.040                      | -0.5028 |
| 0.060                       | -0.7107 | 0.060                    | -0.6083 | 0.060                      | -0.5817 |
| 0.080                       | -0.8441 | 0.080                    | -0.6616 | 0.080                      | -0.5944 |
| 0.100                       | -0.6724 | 0.100                    | -0.7996 | 0.100                      | -0.6016 |
| 0.125                       | -0.7102 | 0.125                    | -0.6184 | 0.125                      | -0.5981 |
| 0.150                       | -0.7777 | 0.150                    | -0.6893 | 0.150                      | -0.6431 |
| 0.175                       | -0.7748 | 0.175                    | -0.7280 | 0.175                      | -0.7296 |
| 0.200                       | -0.8083 | 0.200                    | -0.7500 | 0.200                      | -0.7233 |
| 0.250                       | -0.8581 | 0.250                    | -0.8944 | 0.250                      | -0.6908 |
| 0.300                       | -0.8280 | 0.300                    | -0.9152 | 0.300                      | -0.6685 |
| 0.350                       | -0.7723 | 0.350                    | -0.8540 | 0.350                      | -0.7422 |
| 0.400                       | -0.6381 | 0.400                    | -0.6384 | 0.400                      | -0.6082 |
| 0.450                       | -0.5517 | 0.450                    | -0.6011 | 0.450                      | -0.5755 |
| 0.500                       | -0.5195 | 0.500                    | -0.5669 | 0.500                      | -0.5089 |
| 0.550                       | -0.4486 | 0.550                    | -0.5403 | 0.550                      | -0.4730 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4817 | 0.005 | 0.4938 | 0.005 | 0.4341 |
| 0.010 | 0.2479 | 0.010 | 0.2187 | 0.010 | 0.1027 |

Flight 24 Test point 31

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 19900. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 380.4 Rnpu = 3204000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9763  | 0.000                    | 1.0140  | 0.000                      | 1.0001  |
| 0.005                       | 0.2695  | 0.005                    | 0.3351  | 0.005                      | 0.5745  |
| 0.010                       | -0.0015 | 0.010                    | 0.0710  | 0.010                      | 0.2973  |
| 0.020                       | -0.2647 | 0.020                    | -0.1951 | 0.020                      | -0.0560 |
| 0.040                       | -0.4714 | 0.040                    | -0.3601 | 0.040                      | -0.2524 |
| 0.060                       | -0.5470 | 0.060                    | -0.4294 | 0.060                      | -0.3590 |
| 0.080                       | -0.5844 | 0.080                    | -0.5064 | 0.080                      | -0.4034 |
| 0.100                       | -0.6176 | 0.100                    | -0.5405 | 0.100                      | -0.4314 |
| 0.125                       | -0.5753 | 0.125                    | -0.5427 | 0.125                      | -0.4575 |
| 0.150                       | -0.6734 | 0.150                    | -0.5864 | 0.150                      | -0.5120 |
| 0.175                       | -0.6402 | 0.175                    | -0.6350 | 0.175                      | -0.5489 |
| 0.200                       | -0.7537 | 0.200                    | -0.6734 | 0.200                      | -0.5590 |
| 0.250                       | -0.8402 | 0.250                    | -0.8198 | 0.250                      | -0.6214 |
| 0.300                       | -0.7838 | 0.300                    | -0.8129 | 0.300                      | -0.6404 |
| 0.350                       | -0.7560 | 0.350                    | -0.8114 | 0.350                      | -0.7170 |
| 0.400                       | -0.6090 | 0.400                    | -0.6687 | 0.400                      | -0.5954 |
| 0.450                       | -0.5452 | 0.450                    | -0.6025 | 0.450                      | -0.5593 |
| 0.500                       | -0.5131 | 0.500                    | -0.5795 | 0.500                      | -0.5033 |
| 0.550                       | -0.4518 | 0.550                    | -0.5547 | 0.550                      | -0.4625 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3330 | 0.005 | 0.3262  | 0.005 | 0.2401  |
| 0.010 | 0.0542 | 0.010 | -0.0158 | 0.010 | -0.1749 |

Flight 24 Test point 32

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 19900. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 387.5 Rnpu = 3243000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0350  | 0.000                    | 1.0733  | 0.000                      | 1.0587  |
| 0.005                       | 0.3296  | 0.005                    | 0.4136  | 0.005                      | 0.6576  |
| 0.010                       | 0.0489  | 0.010                    | 0.1444  | 0.010                      | 0.3774  |
| 0.020                       | -0.2237 | 0.020                    | -0.1346 | 0.020                      | 0.0165  |
| 0.040                       | -0.4427 | 0.040                    | -0.3150 | 0.040                      | -0.1914 |
| 0.060                       | -0.5256 | 0.060                    | -0.3870 | 0.060                      | -0.3109 |
| 0.080                       | -0.5725 | 0.080                    | -0.4596 | 0.080                      | -0.3583 |
| 0.100                       | -0.6039 | 0.100                    | -0.5130 | 0.100                      | -0.3942 |
| 0.125                       | -0.5919 | 0.125                    | -0.5150 | 0.125                      | -0.4223 |
| 0.150                       | -0.6855 | 0.150                    | -0.5650 | 0.150                      | -0.4763 |
| 0.175                       | -0.6773 | 0.175                    | -0.6226 | 0.175                      | -0.5238 |
| 0.200                       | -0.7460 | 0.200                    | -0.6490 | 0.200                      | -0.5395 |
| 0.250                       | -0.8520 | 0.250                    | -0.7845 | 0.250                      | -0.6124 |
| 0.300                       | -0.9128 | 0.300                    | -0.8465 | 0.300                      | -0.6461 |
| 0.350                       | -0.8850 | 0.350                    | -0.8547 | 0.350                      | -0.6951 |
| 0.400                       | -0.5901 | 0.400                    | -0.9026 | 0.400                      | -0.7063 |
| 0.450                       | -0.5167 | 0.450                    | -0.5116 | 0.450                      | -0.5315 |
| 0.500                       | -0.4991 | 0.500                    | -0.5518 | 0.500                      | -0.5057 |
| 0.550                       | -0.4404 | 0.550                    | -0.5466 | 0.550                      | -0.4499 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3659 | 0.005 | 0.3342  | 0.005 | 0.2414  |
| 0.010 | 0.0769 | 0.010 | -0.0204 | 0.010 | -0.1971 |

Fight 24 Test point 33

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 19900. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 385.2 Rnpu = 3230000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9750  | 0.000                    | 1.0141  | 0.000                      | 1.0019  |
| 0.005                       | 0.2154  | 0.005                    | 0.2787  | 0.005                      | 0.5301  |
| 0.010                       | -0.0615 | 0.010                    | 0.0120  | 0.010                      | 0.2429  |
| 0.020                       | -0.3229 | 0.020                    | -0.2550 | 0.020                      | -0.1138 |
| 0.040                       | -0.5283 | 0.040                    | -0.4149 | 0.040                      | -0.3067 |
| 0.060                       | -0.6007 | 0.060                    | -0.4758 | 0.060                      | -0.4134 |
| 0.080                       | -0.6304 | 0.080                    | -0.5468 | 0.080                      | -0.4520 |
| 0.100                       | -0.6512 | 0.100                    | -0.6235 | 0.100                      | -0.4776 |
| 0.125                       | -0.6526 | 0.125                    | -0.5807 | 0.125                      | -0.4968 |
| 0.150                       | -0.7126 | 0.150                    | -0.6262 | 0.150                      | -0.5540 |
| 0.175                       | -0.7143 | 0.175                    | -0.6686 | 0.175                      | -0.6213 |
| 0.200                       | -0.7826 | 0.200                    | -0.6985 | 0.200                      | -0.6021 |
| 0.250                       | -0.8771 | 0.250                    | -0.8421 | 0.250                      | -0.6671 |
| 0.300                       | -0.9185 | 0.300                    | -0.8845 | 0.300                      | -0.6974 |
| 0.350                       | -0.7383 | 0.350                    | -0.9051 | 0.350                      | -0.7279 |
| 0.400                       | -0.6750 | 0.400                    | -0.9126 | 0.400                      | -0.7073 |
| 0.450                       | -0.5468 | 0.450                    | -0.5474 | 0.450                      | -0.5615 |
| 0.500                       | -0.5196 | 0.500                    | -0.5635 | 0.500                      | -0.5151 |
| 0.550                       | -0.4557 | 0.550                    | -0.5527 | 0.550                      | -0.4690 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.3905 | 0.005 | 0.3841 | 0.005 | 0.3038  |
| 0.010         | 0.1184 | 0.010 | 0.0550 | 0.010 | -0.0954 |

Fight 24 Test point 34

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 20100. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 384.2 Rnpu = 3220000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9671  | 0.000                    | 1.0015  | 0.000                      | 0.9959  |
| 0.005                       | 0.0465  | 0.005                    | 0.1121  | 0.005                      | 0.3931  |
| 0.010                       | -0.2330 | 0.010                    | -0.1672 | 0.010                      | 0.0808  |
| 0.020                       | -0.4974 | 0.020                    | -0.4352 | 0.020                      | -0.2988 |
| 0.040                       | -0.7434 | 0.040                    | -0.5880 | 0.040                      | -0.4742 |
| 0.060                       | -0.7129 | 0.060                    | -0.6062 | 0.060                      | -0.5774 |
| 0.080                       | -0.8141 | 0.080                    | -0.6390 | 0.080                      | -0.5975 |
| 0.100                       | -0.8552 | 0.100                    | -0.7563 | 0.100                      | -0.6100 |
| 0.125                       | -0.6826 | 0.125                    | -0.9151 | 0.125                      | -0.5981 |
| 0.150                       | -0.8403 | 0.150                    | -0.7043 | 0.150                      | -0.6366 |
| 0.175                       | -0.8419 | 0.175                    | -0.7538 | 0.175                      | -0.7147 |
| 0.200                       | -0.9097 | 0.200                    | -0.7876 | 0.200                      | -0.7887 |
| 0.250                       | -0.9949 | 0.250                    | -0.9065 | 0.250                      | -0.7642 |
| 0.300                       | -1.0314 | 0.300                    | -0.9864 | 0.300                      | -0.8231 |
| 0.350                       | -0.9950 | 0.350                    | -1.0225 | 0.350                      | -0.8580 |
| 0.400                       | -0.9136 | 0.400                    | -1.0827 | 0.400                      | -0.8507 |
| 0.450                       | -0.5104 | 0.450                    | -1.0366 | 0.450                      | -0.6726 |
| 0.500                       | -0.5033 | 0.500                    | -0.4752 | 0.500                      | -0.4974 |
| 0.550                       | -0.4561 | 0.550                    | -0.4946 | 0.550                      | -0.4725 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.5357 | 0.005 | 0.5286 | 0.005 | 0.4620 |
| 0.010         | 0.2823 | 0.010 | 0.2315 | 0.010 | 0.0993 |

Flight 24 Test point 35

Sweep, deg = 20.0 Mach = 0.81 hp, ft = 20000. Angle of attack, deg = -0.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 440.8 Rnpu = 3478000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9842  | 0.000                    | 1.0184  | 0.000                      | 0.9969  |
| 0.005                       | 0.4415  | 0.005                    | 0.5001  | 0.005                      | 0.6881  |
| 0.010                       | 0.1827  | 0.010                    | 0.2596  | 0.010                      | 0.4424  |
| 0.020                       | -0.0718 | 0.020                    | -0.0065 | 0.020                      | 0.1076  |
| 0.040                       | -0.2936 | 0.040                    | -0.1977 | 0.040                      | -0.1014 |
| 0.060                       | -0.3935 | 0.060                    | -0.2727 | 0.060                      | -0.2258 |
| 0.080                       | -0.4386 | 0.080                    | -0.3595 | 0.080                      | -0.2783 |
| 0.100                       | -0.4700 | 0.100                    | -0.4173 | 0.100                      | -0.3173 |
| 0.125                       | -0.5175 | 0.125                    | -0.4204 | 0.125                      | -0.3531 |
| 0.150                       | -0.5576 | 0.150                    | -0.4724 | 0.150                      | -0.4173 |
| 0.175                       | -0.5821 | 0.175                    | -0.5392 | 0.175                      | -0.5023 |
| 0.200                       | -0.6583 | 0.200                    | -0.5651 | 0.200                      | -0.5677 |
| 0.250                       | -0.7521 | 0.250                    | -0.6948 | 0.250                      | -0.5765 |
| 0.300                       | -0.8381 | 0.300                    | -0.7702 | 0.300                      | -0.6430 |
| 0.350                       | -0.8573 | 0.350                    | -0.8239 | 0.350                      | -0.7153 |
| 0.400                       | -0.8762 | 0.400                    | -0.8989 | 0.400                      | -0.7520 |
| 0.450                       | -0.8992 | 0.450                    | -0.9250 | 0.450                      | -0.8613 |
| 0.500                       | -0.9618 | 0.500                    | -0.9717 | 0.500                      | -0.8705 |
| 0.550                       | -0.5049 | 0.550                    | -0.9951 | 0.550                      | -0.8915 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2482  | 0.005 | 0.2338  | 0.005 | 0.1642  |
| 0.010 | -0.0406 | 0.010 | -0.1241 | 0.010 | -0.2676 |

Flight 24 Test point 36

Sweep, deg = 20.0 Mach = 0.81 hp, ft = 20000. Angle of attack, deg = -0.1  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 444.4 Rnpu = 3475000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0431  | 0.000                    | 1.0809  | 0.000                      | 1.0586  |
| 0.005                       | 0.5113  | 0.005                    | 0.5864  | 0.005                      | 0.7721  |
| 0.010                       | 0.2474  | 0.010                    | 0.3415  | 0.010                      | 0.5277  |
| 0.020                       | -0.0159 | 0.020                    | 0.0678  | 0.020                      | 0.1904  |
| 0.040                       | -0.2488 | 0.040                    | -0.1246 | 0.040                      | -0.0306 |
| 0.060                       | -0.3484 | 0.060                    | -0.2165 | 0.060                      | -0.1622 |
| 0.080                       | -0.4072 | 0.080                    | -0.2993 | 0.080                      | -0.2234 |
| 0.100                       | -0.4504 | 0.100                    | -0.3635 | 0.100                      | -0.2649 |
| 0.125                       | -0.4879 | 0.125                    | -0.3737 | 0.125                      | -0.3021 |
| 0.150                       | -0.5228 | 0.150                    | -0.4324 | 0.150                      | -0.3664 |
| 0.175                       | -0.5738 | 0.175                    | -0.5035 | 0.175                      | -0.4407 |
| 0.200                       | -0.6563 | 0.200                    | -0.5343 | 0.200                      | -0.4823 |
| 0.250                       | -0.7576 | 0.250                    | -0.6601 | 0.250                      | -0.5510 |
| 0.300                       | -0.8312 | 0.300                    | -0.7455 | 0.300                      | -0.6172 |
| 0.350                       | -0.8533 | 0.350                    | -0.7904 | 0.350                      | -0.6927 |
| 0.400                       | -0.8740 | 0.400                    | -0.8728 | 0.400                      | -0.7139 |
| 0.450                       | -0.8900 | 0.450                    | -0.9109 | 0.450                      | -0.8180 |
| 0.500                       | -0.9764 | 0.500                    | -0.9587 | 0.500                      | -0.8494 |
| 0.550                       | -0.9221 | 0.550                    | -0.9931 | 0.550                      | -0.8317 |

| Lower surface |         |       |         |       |         |
|---------------|---------|-------|---------|-------|---------|
| 0.005         | 0.2687  | 0.005 | 0.2419  | 0.005 | 0.1784  |
| 0.010         | -0.0306 | 0.010 | -0.1310 | 0.010 | -0.2669 |



Flight 24 Test point 37

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20300. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 432.8 Rnpu = 3406000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9905  | 0.000                    | 1.0280  | 0.000                      | 1.0127  |
| 0.005                       | 0.3280  | 0.005                    | 0.3928  | 0.005                      | 0.6085  |
| 0.010                       | 0.0632  | 0.010                    | 0.1382  | 0.010                      | 0.3423  |
| 0.020                       | -0.1962 | 0.020                    | -0.1277 | 0.020                      | -0.0061 |
| 0.040                       | -0.4129 | 0.040                    | -0.3079 | 0.040                      | -0.2086 |
| 0.060                       | -0.4854 | 0.060                    | -0.3684 | 0.060                      | -0.3327 |
| 0.080                       | -0.6077 | 0.080                    | -0.4381 | 0.080                      | -0.3814 |
| 0.100                       | -0.5406 | 0.100                    | -0.5590 | 0.100                      | -0.4117 |
| 0.125                       | -0.5594 | 0.125                    | -0.4765 | 0.125                      | -0.4253 |
| 0.150                       | -0.6685 | 0.150                    | -0.5355 | 0.150                      | -0.4666 |
| 0.175                       | -0.6791 | 0.175                    | -0.6095 | 0.175                      | -0.5429 |
| 0.200                       | -0.7513 | 0.200                    | -0.6456 | 0.200                      | -0.5111 |
| 0.250                       | -0.8378 | 0.250                    | -0.7521 | 0.250                      | -0.6624 |
| 0.300                       | -0.9095 | 0.300                    | -0.8178 | 0.300                      | -0.7132 |
| 0.350                       | -0.9189 | 0.350                    | -0.8720 | 0.350                      | -0.7949 |
| 0.400                       | -0.9132 | 0.400                    | -0.9515 | 0.400                      | -0.8196 |
| 0.450                       | -0.9504 | 0.450                    | -0.9950 | 0.450                      | -0.9055 |
| 0.500                       | -1.0594 | 0.500                    | -1.0404 | 0.500                      | -0.9382 |
| 0.550                       | -0.5739 | 0.550                    | -0.9652 | 0.550                      | -0.9544 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.3618 | 0.005 | 0.3473 | 0.005 | 0.2747  |
| 0.010         | 0.0858 | 0.010 | 0.0116 | 0.010 | -0.1332 |

Fight 24 Test point 38

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20200. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 435.0 Rnpu = 3417000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9915  | 0.000                    | 1.0264  | 0.000                      | 1.0089  |
| 0.005                       | 0.2197  | 0.005                    | 0.2882  | 0.005                      | 0.5240  |
| 0.010                       | -0.0494 | 0.010                    | 0.0245  | 0.010                      | 0.2403  |
| 0.020                       | -0.3086 | 0.020                    | -0.2391 | 0.020                      | -0.1210 |
| 0.040                       | -0.5542 | 0.040                    | -0.4103 | 0.040                      | -0.3165 |
| 0.060                       | -0.5519 | 0.060                    | -0.4512 | 0.060                      | -0.4372 |
| 0.080                       | -0.6544 | 0.080                    | -0.4886 | 0.080                      | -0.4765 |
| 0.100                       | -0.7103 | 0.100                    | -0.6066 | 0.100                      | -0.5040 |
| 0.125                       | -0.6269 | 0.125                    | -0.7634 | 0.125                      | -0.4955 |
| 0.150                       | -0.7578 | 0.150                    | -0.6693 | 0.150                      | -0.5092 |
| 0.175                       | -0.7335 | 0.175                    | -0.6764 | 0.175                      | -0.5804 |
| 0.200                       | -0.8151 | 0.200                    | -0.7013 | 0.200                      | -0.6496 |
| 0.250                       | -0.9098 | 0.250                    | -0.8031 | 0.250                      | -0.7452 |
| 0.300                       | -0.9877 | 0.300                    | -0.8852 | 0.300                      | -0.7946 |
| 0.350                       | -0.9872 | 0.350                    | -0.9315 | 0.350                      | -0.8587 |
| 0.400                       | -0.9947 | 0.400                    | -1.0087 | 0.400                      | -0.8916 |
| 0.450                       | -0.9891 | 0.450                    | -1.0448 | 0.450                      | -0.9475 |
| 0.500                       | -1.0848 | 0.500                    | -1.0940 | 0.500                      | -1.0058 |
| 0.550                       | -0.4728 | 0.550                    | -0.6975 | 0.550                      | -0.9306 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.4619 | 0.005 | 0.4464 | 0.005 | 0.3808  |
| 0.010         | 0.2014 | 0.010 | 0.1318 | 0.010 | -0.0017 |

Fight 24 Test point 39

Sweep, deg = 25.3 Mach = 0.81 hp, ft = 20000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 443.4 Rnpu = 3469000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9042  | 0.000                    | 0.9385  | 0.000                      | 0.9206  |
| 0.005                       | 0.3454  | 0.005                    | 0.3952  | 0.005                      | 0.5875  |
| 0.010                       | 0.1009  | 0.010                    | 0.1603  | 0.010                      | 0.3437  |
| 0.020                       | -0.1426 | 0.020                    | -0.0907 | 0.020                      | 0.0214  |
| 0.040                       | -0.3339 | 0.040                    | -0.2684 | 0.040                      | -0.1730 |
| 0.060                       | -0.4311 | 0.060                    | -0.3180 | 0.060                      | -0.2848 |
| 0.080                       | -0.4539 | 0.080                    | -0.4187 | 0.080                      | -0.3212 |
| 0.100                       | -0.5023 | 0.100                    | -0.4699 | 0.100                      | -0.3523 |
| 0.125                       | -0.5414 | 0.125                    | -0.4535 | 0.125                      | -0.3760 |
| 0.150                       | -0.5840 | 0.150                    | -0.5078 | 0.150                      | -0.4401 |
| 0.175                       | -0.6034 | 0.175                    | -0.5589 | 0.175                      | -0.5291 |
| 0.200                       | -0.6628 | 0.200                    | -0.5880 | 0.200                      | -0.5988 |
| 0.250                       | -0.7567 | 0.250                    | -0.7125 | 0.250                      | -0.5915 |
| 0.300                       | -0.8223 | 0.300                    | -0.7781 | 0.300                      | -0.6548 |
| 0.350                       | -0.8098 | 0.350                    | -0.8221 | 0.350                      | -0.7299 |
| 0.400                       | -0.7145 | 0.400                    | -0.8835 | 0.400                      | -0.7846 |
| 0.450                       | -0.7328 | 0.450                    | -0.9113 | 0.450                      | -0.8546 |
| 0.500                       | -0.8070 | 0.500                    | -0.9393 | 0.500                      | -0.8690 |
| 0.550                       | -0.4058 | 0.550                    | -0.7015 | 0.550                      | -0.5376 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2388  | 0.005 | 0.2360  | 0.005 | 0.1636  |
| 0.010 | -0.0292 | 0.010 | -0.0944 | 0.010 | -0.2396 |

Flight 24 Test point 40

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 436.4 Rnpu = 3459000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9074  | 0.000                    | 0.9398  | 0.000                      | 0.9255  |
| 0.005                       | 0.2091  | 0.005                    | 0.2579  | 0.005                      | 0.4742  |
| 0.010                       | -0.0434 | 0.010                    | 0.0104  | 0.010                      | 0.2077  |
| 0.020                       | -0.2871 | 0.020                    | -0.2374 | 0.020                      | -0.1306 |
| 0.040                       | -0.4691 | 0.040                    | -0.4065 | 0.040                      | -0.3125 |
| 0.060                       | -0.5207 | 0.060                    | -0.4222 | 0.060                      | -0.4157 |
| 0.080                       | -0.6683 | 0.080                    | -0.4973 | 0.080                      | -0.4514 |
| 0.100                       | -0.5932 | 0.100                    | -0.6356 | 0.100                      | -0.4810 |
| 0.125                       | -0.5786 | 0.125                    | -0.6013 | 0.125                      | -0.4583 |
| 0.150                       | -0.6839 | 0.150                    | -0.5785 | 0.150                      | -0.4938 |
| 0.175                       | -0.6876 | 0.175                    | -0.6252 | 0.175                      | -0.5879 |
| 0.200                       | -0.7545 | 0.200                    | -0.6643 | 0.200                      | -0.6549 |
| 0.250                       | -0.8322 | 0.250                    | -0.7821 | 0.250                      | -0.6898 |
| 0.300                       | -0.8948 | 0.300                    | -0.8508 | 0.300                      | -0.7440 |
| 0.350                       | -0.8991 | 0.350                    | -0.8984 | 0.350                      | -0.8033 |
| 0.400                       | -0.8959 | 0.400                    | -0.9608 | 0.400                      | -0.8371 |
| 0.450                       | -0.8205 | 0.450                    | -0.9882 | 0.450                      | -0.9295 |
| 0.500                       | -0.8086 | 0.500                    | -1.0224 | 0.500                      | -0.9343 |
| 0.550                       | -0.4000 | 0.550                    | -0.6328 | 0.550                      | -0.5413 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.3718 | 0.005 | 0.3684 | 0.005 | 0.3079  |
| 0.010         | 0.1182 | 0.010 | 0.0661 | 0.010 | -0.0539 |

Fight 24 Test point 41

Sweep, deg = 29.7 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 437.0 Rnpu = 3459000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8221  | 0.000                    | 0.8574  | 0.000                      | 0.8480  |
| 0.005                       | 0.2182  | 0.005                    | 0.2565  | 0.005                      | 0.4569  |
| 0.010                       | -0.0156 | 0.010                    | 0.0344  | 0.010                      | 0.2120  |
| 0.020                       | -0.2342 | 0.020                    | -0.2024 | 0.020                      | -0.0906 |
| 0.040                       | -0.4071 | 0.040                    | -0.3424 | 0.040                      | -0.2595 |
| 0.060                       | -0.5005 | 0.060                    | -0.3968 | 0.060                      | -0.3611 |
| 0.080                       | -0.4823 | 0.080                    | -0.4917 | 0.080                      | -0.3960 |
| 0.100                       | -0.5486 | 0.100                    | -0.6018 | 0.100                      | -0.4216 |
| 0.125                       | -0.5484 | 0.125                    | -0.4939 | 0.125                      | -0.4343 |
| 0.150                       | -0.6088 | 0.150                    | -0.5354 | 0.150                      | -0.4831 |
| 0.175                       | -0.5814 | 0.175                    | -0.5766 | 0.175                      | -0.5623 |
| 0.200                       | -0.6369 | 0.200                    | -0.6111 | 0.200                      | -0.6276 |
| 0.250                       | -0.6898 | 0.250                    | -0.7340 | 0.250                      | -0.6125 |
| 0.300                       | -0.7438 | 0.300                    | -0.7749 | 0.300                      | -0.6498 |
| 0.350                       | -0.7332 | 0.350                    | -0.8067 | 0.350                      | -0.6844 |
| 0.400                       | -0.7159 | 0.400                    | -0.8395 | 0.400                      | -0.7758 |
| 0.450                       | -0.7059 | 0.450                    | -0.6813 | 0.450                      | -0.4337 |
| 0.500                       | -0.4470 | 0.500                    | -0.4533 | 0.500                      | -0.4126 |
| 0.550                       | -0.4016 | 0.550                    | -0.4672 | 0.550                      | -0.4166 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2641 | 0.005 | 0.2769  | 0.005 | 0.2223  |
| 0.010 | 0.0226 | 0.010 | -0.0132 | 0.010 | -0.1192 |

Fight 24 Test point 42

Sweep, deg = 29.7 Mach = 0.80 hp, ft = 20700. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 418.5 Rnpu = 3338000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8241  | 0.000                    | 0.8589  | 0.000                      | 0.8473  |
| 0.005                       | 0.2173  | 0.005                    | 0.2595  | 0.005                      | 0.4599  |
| 0.010                       | -0.0182 | 0.010                    | 0.0418  | 0.010                      | 0.2203  |
| 0.020                       | -0.2411 | 0.020                    | -0.2006 | 0.020                      | -0.0838 |
| 0.040                       | -0.4064 | 0.040                    | -0.3411 | 0.040                      | -0.2566 |
| 0.060                       | -0.5046 | 0.060                    | -0.3981 | 0.060                      | -0.3546 |
| 0.080                       | -0.4972 | 0.080                    | -0.4986 | 0.080                      | -0.3944 |
| 0.100                       | -0.5509 | 0.100                    | -0.5012 | 0.100                      | -0.4179 |
| 0.125                       | -0.5195 | 0.125                    | -0.4983 | 0.125                      | -0.4330 |
| 0.150                       | -0.5566 | 0.150                    | -0.5338 | 0.150                      | -0.4834 |
| 0.175                       | -0.5660 | 0.175                    | -0.5732 | 0.175                      | -0.5667 |
| 0.200                       | -0.6548 | 0.200                    | -0.6004 | 0.200                      | -0.6123 |
| 0.250                       | -0.7249 | 0.250                    | -0.7362 | 0.250                      | -0.6101 |
| 0.300                       | -0.7424 | 0.300                    | -0.7672 | 0.300                      | -0.6250 |
| 0.350                       | -0.7084 | 0.350                    | -0.7897 | 0.350                      | -0.6587 |
| 0.400                       | -0.6926 | 0.400                    | -0.8039 | 0.400                      | -0.6167 |
| 0.450                       | -0.5528 | 0.450                    | -0.4878 | 0.450                      | -0.4849 |
| 0.500                       | -0.4607 | 0.500                    | -0.5017 | 0.500                      | -0.4430 |
| 0.550                       | -0.4129 | 0.550                    | -0.4883 | 0.550                      | -0.4259 |

| Lower surface |        |       |         |       |         |
|---------------|--------|-------|---------|-------|---------|
| 0.005         | 0.2592 | 0.005 | 0.2704  | 0.005 | 0.2101  |
| 0.010         | 0.0174 | 0.010 | -0.0229 | 0.010 | -0.1320 |

Fight 24 Test point 43

Sweep, deg = 29.7 Mach = 0.80 hp, ft = 20100. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 436.6 Rnpu = 34/9000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8255  | 0.000                    | 0.8565  | 0.000                      | 0.8423  |
| 0.005                       | 0.1251  | 0.005                    | 0.1570  | 0.005                      | 0.3730  |
| 0.010                       | -0.1128 | 0.010                    | -0.0756 | 0.010                      | 0.1100  |
| 0.020                       | -0.3370 | 0.020                    | -0.3039 | 0.020                      | -0.2097 |
| 0.040                       | -0.4998 | 0.040                    | -0.4395 | 0.040                      | -0.3709 |
| 0.060                       | -0.5651 | 0.060                    | -0.4550 | 0.060                      | -0.4532 |
| 0.080                       | -0.7014 | 0.080                    | -0.5320 | 0.080                      | -0.4650 |
| 0.100                       | -0.5950 | 0.100                    | -0.6796 | 0.100                      | -0.5135 |
| 0.125                       | -0.5884 | 0.125                    | -0.6326 | 0.125                      | -0.5080 |
| 0.150                       | -0.6787 | 0.150                    | -0.6137 | 0.150                      | -0.5044 |
| 0.175                       | -0.6797 | 0.175                    | -0.6252 | 0.175                      | -0.5883 |
| 0.200                       | -0.7418 | 0.200                    | -0.6571 | 0.200                      | -0.6629 |
| 0.250                       | -0.8055 | 0.250                    | -0.7770 | 0.250                      | -0.6955 |
| 0.300                       | -0.8364 | 0.300                    | -0.8297 | 0.300                      | -0.7256 |
| 0.350                       | -0.7167 | 0.350                    | -0.8664 | 0.350                      | -0.7837 |
| 0.400                       | -0.7474 | 0.400                    | -0.9161 | 0.400                      | -0.8314 |
| 0.450                       | -0.7470 | 0.450                    | -0.9121 | 0.450                      | -0.8794 |
| 0.500                       | -0.5476 | 0.500                    | -0.5175 | 0.500                      | -0.3710 |
| 0.550                       | -0.3980 | 0.550                    | -0.4280 | 0.550                      | -0.3700 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.3527 | 0.005 | 0.3686 | 0.005 | 0.3207  |
| 0.010         | 0.1234 | 0.010 | 0.0977 | 0.010 | -0.0039 |

Fight 24 Test point 44

Sweep, deg = 29.7 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 355.9 Rnpu = 2888000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8244  | 0.000                    | 0.8581  | 0.000                      | 0.8481  |
| 0.005                       | 0.1616  | 0.005                    | 0.1910  | 0.005                      | 0.4056  |
| 0.010                       | -0.0727 | 0.010                    | -0.0318 | 0.010                      | 0.1488  |
| 0.020                       | -0.2966 | 0.020                    | -0.2670 | 0.020                      | -0.1687 |
| 0.040                       | -0.4544 | 0.040                    | -0.3978 | 0.040                      | -0.3340 |
| 0.060                       | -0.5260 | 0.060                    | -0.4252 | 0.060                      | -0.4291 |
| 0.080                       | -0.6724 | 0.080                    | -0.5112 | 0.080                      | -0.4479 |
| 0.100                       | -0.5134 | 0.100                    | -0.6604 | 0.100                      | -0.4685 |
| 0.125                       | -0.5873 | 0.125                    | -0.5780 | 0.125                      | -0.4744 |
| 0.150                       | -0.6610 | 0.150                    | -0.5510 | 0.150                      | -0.5033 |
| 0.175                       | -0.6576 | 0.175                    | -0.6232 | 0.175                      | -0.5818 |
| 0.200                       | -0.7141 | 0.200                    | -0.6420 | 0.200                      | -0.6498 |
| 0.250                       | -0.7794 | 0.250                    | -0.7606 | 0.250                      | -0.6784 |
| 0.300                       | -0.6961 | 0.300                    | -0.8031 | 0.300                      | -0.6968 |
| 0.350                       | -0.7346 | 0.350                    | -0.8412 | 0.350                      | -0.7606 |
| 0.400                       | -0.7308 | 0.400                    | -0.8816 | 0.400                      | -0.8098 |
| 0.450                       | -0.7257 | 0.450                    | -0.8319 | 0.450                      | -0.8191 |
| 0.500                       | -0.4944 | 0.500                    | -0.4839 | 0.500                      | -0.3639 |
| 0.550                       | -0.3939 | 0.550                    | -0.4331 | 0.550                      | -0.3834 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3177 | 0.005 | 0.3351 | 0.005 | 0.2875  |
| 0.010 | 0.0825 | 0.010 | 0.0539 | 0.010 | -0.0520 |



Flight 24 Test point 45

Sweep, deg = 29.7 Mach = 0.81 hp, ft = 25100. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 354.2 R<sub>npu</sub> = 2875000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8220  | 0.000                    | 0.8558  | 0.000                      | 0.8463  |
| 0.005                       | 0.1169  | 0.005                    | 0.1482  | 0.005                      | 0.3677  |
| 0.010                       | -0.1199 | 0.010                    | -0.0822 | 0.010                      | 0.1015  |
| 0.020                       | -0.3411 | 0.020                    | -0.3135 | 0.020                      | -0.2157 |
| 0.040                       | -0.5165 | 0.040                    | -0.4695 | 0.040                      | -0.3822 |
| 0.060                       | -0.5630 | 0.060                    | -0.4545 | 0.060                      | -0.4724 |
| 0.080                       | -0.7018 | 0.080                    | -0.5280 | 0.080                      | -0.4861 |
| 0.100                       | -0.6013 | 0.100                    | -0.6760 | 0.100                      | -0.5162 |
| 0.125                       | -0.5909 | 0.125                    | -0.6417 | 0.125                      | -0.5003 |
| 0.150                       | -0.6757 | 0.150                    | -0.6186 | 0.150                      | -0.5404 |
| 0.175                       | -0.6838 | 0.175                    | -0.6369 | 0.175                      | -0.5865 |
| 0.200                       | -0.7445 | 0.200                    | -0.6675 | 0.200                      | -0.6626 |
| 0.250                       | -0.8127 | 0.250                    | -0.7793 | 0.250                      | -0.7075 |
| 0.300                       | -0.8536 | 0.300                    | -0.8330 | 0.300                      | -0.7411 |
| 0.350                       | -0.7108 | 0.350                    | -0.8714 | 0.350                      | -0.7895 |
| 0.400                       | -0.7438 | 0.400                    | -0.9252 | 0.400                      | -0.8340 |
| 0.450                       | -0.7487 | 0.450                    | -0.9256 | 0.450                      | -0.8913 |
| 0.500                       | -0.5589 | 0.500                    | -0.5963 | 0.500                      | -0.4353 |
| 0.550                       | -0.3964 | 0.550                    | -0.4206 | 0.550                      | -0.3582 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.3605 | 0.005 | 0.3776 | 0.005 | 0.3300 |
| 0.010         | 0.1289 | 0.010 | 0.1047 | 0.010 | 0.0062 |

Flight 24 Test point 46

Sweep, deg = 29.7 Mach = 0.80 hp, ft = 25300. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 350.6 Rnpu = 2854000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8059  | 0.000                    | 0.8365  | 0.000                      | 0.8315  |
| 0.005                       | -0.0069 | 0.005                    | 0.0173  | 0.005                      | 0.2533  |
| 0.010                       | -0.2481 | 0.010                    | -0.2153 | 0.010                      | -0.0238 |
| 0.020                       | -0.4745 | 0.020                    | -0.4514 | 0.020                      | -0.3510 |
| 0.040                       | -0.6950 | 0.040                    | -0.5892 | 0.040                      | -0.5017 |
| 0.060                       | -0.6677 | 0.060                    | -0.6449 | 0.060                      | -0.6523 |
| 0.080                       | -0.7310 | 0.080                    | -0.5514 | 0.080                      | -0.6345 |
| 0.100                       | -0.7328 | 0.100                    | -0.7130 | 0.100                      | -0.6224 |
| 0.125                       | -0.6608 | 0.125                    | -0.7540 | 0.125                      | -0.6211 |
| 0.150                       | -0.7631 | 0.150                    | -0.7432 | 0.150                      | -0.6345 |
| 0.175                       | -0.7595 | 0.175                    | -0.7581 | 0.175                      | -0.6406 |
| 0.200                       | -0.8205 | 0.200                    | -0.7613 | 0.200                      | -0.6949 |
| 0.250                       | -0.8992 | 0.250                    | -0.8551 | 0.250                      | -0.7680 |
| 0.300                       | -0.9489 | 0.300                    | -0.9052 | 0.300                      | -0.8157 |
| 0.350                       | -0.9163 | 0.350                    | -0.9266 | 0.350                      | -0.8791 |
| 0.400                       | -0.7747 | 0.400                    | -0.9974 | 0.400                      | -0.8900 |
| 0.450                       | -0.7475 | 0.450                    | -1.0122 | 0.450                      | -0.9803 |
| 0.500                       | -0.6682 | 0.500                    | -1.0068 | 0.500                      | -0.9455 |
| 0.550                       | -0.3981 | 0.550                    | -0.4455 | 0.550                      | -0.3842 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4611 | 0.005 | 0.4791 | 0.005 | 0.4392 |
| 0.010 | 0.2502 | 0.010 | 0.2319 | 0.010 | 0.1470 |

Flight 24 Test point 47

Sweep, deg = 25.0 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 352.2 Rnpu = 2868000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9089  | 0.000                    | 0.9496  | 0.000                      | 0.9334  |
| 0.005                       | 0.3052  | 0.005                    | 0.3519  | 0.005                      | 0.5562  |
| 0.010                       | 0.0564  | 0.010                    | 0.1140  | 0.010                      | 0.2990  |
| 0.020                       | -0.1830 | 0.020                    | -0.1375 | 0.020                      | -0.0288 |
| 0.040                       | -0.3851 | 0.040                    | -0.3159 | 0.040                      | -0.2165 |
| 0.060                       | -0.4769 | 0.060                    | -0.3673 | 0.060                      | -0.3285 |
| 0.080                       | -0.4846 | 0.080                    | -0.4513 | 0.080                      | -0.3735 |
| 0.100                       | -0.5253 | 0.100                    | -0.5813 | 0.100                      | -0.4057 |
| 0.125                       | -0.5687 | 0.125                    | -0.4660 | 0.125                      | -0.4186 |
| 0.150                       | -0.6059 | 0.150                    | -0.5395 | 0.150                      | -0.4530 |
| 0.175                       | -0.6311 | 0.175                    | -0.5919 | 0.175                      | -0.5415 |
| 0.200                       | -0.6992 | 0.200                    | -0.6154 | 0.200                      | -0.6028 |
| 0.250                       | -0.7829 | 0.250                    | -0.7415 | 0.250                      | -0.6250 |
| 0.300                       | -0.8499 | 0.300                    | -0.8067 | 0.300                      | -0.6844 |
| 0.350                       | -0.8368 | 0.350                    | -0.8507 | 0.350                      | -0.7531 |
| 0.400                       | -0.7830 | 0.400                    | -0.9083 | 0.400                      | -0.7932 |
| 0.450                       | -0.7323 | 0.450                    | -0.9259 | 0.450                      | -0.8736 |
| 0.500                       | -0.7914 | 0.500                    | -0.9715 | 0.500                      | -0.8815 |
| 0.550                       | -0.3881 | 0.550                    | -0.5386 | 0.550                      | -0.4489 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2820 | 0.005 | 0.2849  | 0.005 | 0.2192  |
| 0.010 | 0.0188 | 0.010 | -0.0357 | 0.010 | -0.1730 |

Flight 24 Test point 48

Sweep, deg = 25.0 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 355.2 Rnpu = 2884000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9140  | 0.000                    | 0.9499  | 0.000                      | 0.9375  |
| 0.005                       | 0.2046  | 0.005                    | 0.2555  | 0.005                      | 0.4780  |
| 0.010                       | -0.0497 | 0.010                    | 0.0109  | 0.010                      | 0.2073  |
| 0.020                       | -0.2909 | 0.020                    | -0.2384 | 0.020                      | -0.1280 |
| 0.040                       | -0.4896 | 0.040                    | -0.4148 | 0.040                      | -0.3141 |
| 0.060                       | -0.5314 | 0.060                    | -0.4407 | 0.060                      | -0.4213 |
| 0.080                       | -0.6573 | 0.080                    | -0.4934 | 0.080                      | -0.4566 |
| 0.100                       | -0.6002 | 0.100                    | -0.6258 | 0.100                      | -0.4923 |
| 0.125                       | -0.5828 | 0.125                    | -0.6095 | 0.125                      | -0.4935 |
| 0.150                       | -0.6896 | 0.150                    | -0.5915 | 0.150                      | -0.5138 |
| 0.175                       | -0.6971 | 0.175                    | -0.6193 | 0.175                      | -0.5647 |
| 0.200                       | -0.7680 | 0.200                    | -0.6707 | 0.200                      | -0.6346 |
| 0.250                       | -0.8507 | 0.250                    | -0.7952 | 0.250                      | -0.7002 |
| 0.300                       | -0.9042 | 0.300                    | -0.8481 | 0.300                      | -0.7495 |
| 0.350                       | -0.9126 | 0.350                    | -0.9034 | 0.350                      | -0.8089 |
| 0.400                       | -0.9196 | 0.400                    | -0.9714 | 0.400                      | -0.8376 |
| 0.450                       | -0.9129 | 0.450                    | -0.9974 | 0.450                      | -0.9439 |
| 0.500                       | -0.8079 | 0.500                    | -1.0416 | 0.500                      | -0.9471 |
| 0.550                       | -0.4264 | 0.550                    | -0.6240 | 0.550                      | -0.6607 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3818 | 0.005 | 0.3826 | 0.005 | 0.3248  |
| 0.010 | 0.1304 | 0.010 | 0.0811 | 0.010 | -0.0411 |

Fight 24 Test point 49

Sweep, deg = 25.0 Mach = 0.80 hp, ft = 25200. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 351.3 Rnpu = 2859000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9016  | 0.000                    | 0.9339  | 0.000                      | 0.9250  |
| 0.005                       | 0.0561  | 0.005                    | 0.1007  | 0.005                      | 0.3467  |
| 0.010                       | -0.2038 | 0.010                    | -0.1513 | 0.010                      | 0.0527  |
| 0.020                       | -0.4494 | 0.020                    | -0.4006 | 0.020                      | -0.2995 |
| 0.040                       | -0.6629 | 0.040                    | -0.5651 | 0.040                      | -0.4696 |
| 0.060                       | -0.7202 | 0.060                    | -0.6253 | 0.060                      | -0.6240 |
| 0.080                       | -0.6688 | 0.080                    | -0.5460 | 0.080                      | -0.6054 |
| 0.100                       | -0.7737 | 0.100                    | -0.6661 | 0.100                      | -0.6267 |
| 0.125                       | -0.6867 | 0.125                    | -0.8266 | 0.125                      | -0.6146 |
| 0.150                       | -0.8150 | 0.150                    | -0.7786 | 0.150                      | -0.6290 |
| 0.175                       | -0.7766 | 0.175                    | -0.7858 | 0.175                      | -0.6689 |
| 0.200                       | -0.8548 | 0.200                    | -0.7949 | 0.200                      | -0.6741 |
| 0.250                       | -0.9333 | 0.250                    | -0.8728 | 0.250                      | -0.7977 |
| 0.300                       | -0.9982 | 0.300                    | -0.9310 | 0.300                      | -0.8461 |
| 0.350                       | -0.9934 | 0.350                    | -0.9580 | 0.350                      | -0.9117 |
| 0.400                       | -0.9761 | 0.400                    | -1.0367 | 0.400                      | -0.9377 |
| 0.450                       | -0.9974 | 0.450                    | -1.0718 | 0.450                      | -1.0013 |
| 0.500                       | -1.0949 | 0.500                    | -1.1135 | 0.500                      | -1.0262 |
| 0.550                       | -0.4603 | 0.550                    | -0.4960 | 0.550                      | -0.4642 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5045 | 0.005 | 0.5110 | 0.005 | 0.4615 |
| 0.010 | 0.2748 | 0.010 | 0.2395 | 0.010 | 0.1324 |

Flight 24 Test point 50

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 355.3 Rnpu = 2885000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9871  | 0.000                    | 1.0291  | 0.000                      | 1.0096  |
| 0.005                       | 0.3645  | 0.005                    | 0.4285  | 0.005                      | 0.6353  |
| 0.010                       | 0.1034  | 0.010                    | 0.1805  | 0.010                      | 0.3729  |
| 0.020                       | -0.1549 | 0.020                    | -0.0909 | 0.020                      | 0.0284  |
| 0.040                       | -0.3713 | 0.040                    | -0.2804 | 0.040                      | -0.1762 |
| 0.060                       | -0.4611 | 0.060                    | -0.3449 | 0.060                      | -0.2979 |
| 0.080                       | -0.5725 | 0.080                    | -0.4200 | 0.080                      | -0.3464 |
| 0.100                       | -0.5161 | 0.100                    | -0.5459 | 0.100                      | -0.3826 |
| 0.125                       | -0.5537 | 0.125                    | -0.4617 | 0.125                      | -0.4040 |
| 0.150                       | -0.6362 | 0.150                    | -0.5323 | 0.150                      | -0.4486 |
| 0.175                       | -0.6476 | 0.175                    | -0.5795 | 0.175                      | -0.5094 |
| 0.200                       | -0.7278 | 0.200                    | -0.6208 | 0.200                      | -0.5773 |
| 0.250                       | -0.8142 | 0.250                    | -0.7375 | 0.250                      | -0.6360 |
| 0.300                       | -0.8906 | 0.300                    | -0.8014 | 0.300                      | -0.6920 |
| 0.350                       | -0.8773 | 0.350                    | -0.8583 | 0.350                      | -0.7701 |
| 0.400                       | -0.9019 | 0.400                    | -0.9438 | 0.400                      | -0.7925 |
| 0.450                       | -0.9258 | 0.450                    | -0.9716 | 0.450                      | -0.8947 |
| 0.500                       | -1.0321 | 0.500                    | -1.0192 | 0.500                      | -0.9200 |
| 0.550                       | -0.5807 | 0.550                    | -1.0163 | 0.550                      | -0.9086 |

| Lower surface |        |       |         |       |         |
|---------------|--------|-------|---------|-------|---------|
| 0.005         | 0.3253 | 0.005 | 0.3184  | 0.005 | 0.2472  |
| 0.010         | 0.0480 | 0.010 | -0.0266 | 0.010 | -0.1741 |

Fight 24 Test point 51

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 355.0 Rnpu = 2883000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0482  | 0.000                    | 1.0898  | 0.000                      | 1.0687  |
| 0.005                       | 0.4341  | 0.005                    | 0.5116  | 0.005                      | 0.7206  |
| 0.010                       | 0.1856  | 0.010                    | 0.2602  | 0.010                      | 0.4585  |
| 0.020                       | -0.0984 | 0.020                    | -0.0167 | 0.020                      | 0.1094  |
| 0.040                       | -0.3273 | 0.040                    | -0.2193 | 0.040                      | -0.1035 |
| 0.060                       | -0.4199 | 0.060                    | -0.2933 | 0.060                      | -0.2328 |
| 0.080                       | -0.4956 | 0.080                    | -0.3684 | 0.080                      | -0.2875 |
| 0.100                       | -0.5034 | 0.100                    | -0.4655 | 0.100                      | -0.3258 |
| 0.125                       | -0.5270 | 0.125                    | -0.4389 | 0.125                      | -0.3537 |
| 0.150                       | -0.6124 | 0.150                    | -0.4907 | 0.150                      | -0.4041 |
| 0.175                       | -0.6224 | 0.175                    | -0.5559 | 0.175                      | -0.4632 |
| 0.200                       | -0.7058 | 0.200                    | -0.5979 | 0.200                      | -0.5281 |
| 0.250                       | -0.7982 | 0.250                    | -0.7040 | 0.250                      | -0.5689 |
| 0.300                       | -0.8855 | 0.300                    | -0.7972 | 0.300                      | -0.6556 |
| 0.350                       | -0.8962 | 0.350                    | -0.8315 | 0.350                      | -0.7299 |
| 0.400                       | -0.9189 | 0.400                    | -0.9201 | 0.400                      | -0.7600 |
| 0.450                       | -0.9400 | 0.450                    | -0.9508 | 0.450                      | -0.8402 |
| 0.500                       | -1.0166 | 0.500                    | -0.9952 | 0.500                      | -0.8844 |
| 0.550                       | -0.6536 | 0.550                    | -0.9224 | 0.550                      | -0.8472 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3411 | 0.005 | 0.3222  | 0.005 | 0.2508  |
| 0.010 | 0.0531 | 0.010 | -0.0398 | 0.010 | -0.1871 |

Flight 24 Test point 52

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 24800. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 355.5 Rnpu = 2896000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9923  | 0.000                    | 1.0295  | 0.000                      | 1.0155  |
| 0.005                       | 0.2393  | 0.005                    | 0.3033  | 0.005                      | 0.5367  |
| 0.010                       | -0.0333 | 0.010                    | 0.0414  | 0.010                      | 0.2534  |
| 0.020                       | -0.2855 | 0.020                    | -0.2246 | 0.020                      | -0.1065 |
| 0.040                       | -0.5099 | 0.040                    | -0.4139 | 0.040                      | -0.3014 |
| 0.060                       | -0.5420 | 0.060                    | -0.4482 | 0.060                      | -0.4222 |
| 0.080                       | -0.6541 | 0.080                    | -0.4912 | 0.080                      | -0.4591 |
| 0.100                       | -0.6933 | 0.100                    | -0.6068 | 0.100                      | -0.4905 |
| 0.125                       | -0.5970 | 0.125                    | -0.7422 | 0.125                      | -0.4918 |
| 0.150                       | -0.7244 | 0.150                    | -0.6339 | 0.150                      | -0.5434 |
| 0.175                       | -0.7236 | 0.175                    | -0.6571 | 0.175                      | -0.5497 |
| 0.200                       | -0.8074 | 0.200                    | -0.6761 | 0.200                      | -0.6209 |
| 0.250                       | -0.8931 | 0.250                    | -0.7869 | 0.250                      | -0.7420 |
| 0.300                       | -0.9748 | 0.300                    | -0.8803 | 0.300                      | -0.7774 |
| 0.350                       | -0.9732 | 0.350                    | -0.9237 | 0.350                      | -0.8454 |
| 0.400                       | -0.9689 | 0.400                    | -1.0069 | 0.400                      | -0.8770 |
| 0.450                       | -0.9807 | 0.450                    | -1.0410 | 0.450                      | -0.9440 |
| 0.500                       | -1.0705 | 0.500                    | -1.0833 | 0.500                      | -0.9979 |
| 0.550                       | -0.4891 | 0.550                    | -0.7117 | 0.550                      | -0.9336 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4463 | 0.005 | 0.4395 | 0.005 | 0.3712  |
| 0.010 | 0.1804 | 0.010 | 0.1437 | 0.010 | -0.0112 |



Fight 24 Test point 53

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 24700. Angle of attack, deg = 2.1  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 356.8 Rnpu = 2906000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9819  | 0.000                    | 1.0180  | 0.000                      | 1.0079  |
| 0.005                       | 0.1289  | 0.005                    | 0.1967  | 0.005                      | 0.4482  |
| 0.010                       | -0.1408 | 0.010                    | -0.0686 | 0.010                      | 0.1513  |
| 0.020                       | -0.3970 | 0.020                    | -0.3316 | 0.020                      | -0.2171 |
| 0.040                       | -0.6256 | 0.040                    | -0.5231 | 0.040                      | -0.4016 |
| 0.060                       | -0.6833 | 0.060                    | -0.5585 | 0.060                      | -0.5294 |
| 0.080                       | -0.6630 | 0.080                    | -0.5371 | 0.080                      | -0.5699 |
| 0.100                       | -0.8028 | 0.100                    | -0.6414 | 0.100                      | -0.5753 |
| 0.125                       | -0.7020 | 0.125                    | -0.8151 | 0.125                      | -0.5798 |
| 0.150                       | -0.8031 | 0.150                    | -0.7640 | 0.150                      | -0.5864 |
| 0.175                       | -0.7904 | 0.175                    | -0.7645 | 0.175                      | -0.6527 |
| 0.200                       | -0.8714 | 0.200                    | -0.7814 | 0.200                      | -0.6468 |
| 0.250                       | -0.9564 | 0.250                    | -0.8651 | 0.250                      | -0.8146 |
| 0.300                       | -1.0434 | 0.300                    | -0.9304 | 0.300                      | -0.8397 |
| 0.350                       | -1.0378 | 0.350                    | -0.9808 | 0.350                      | -0.9072 |
| 0.400                       | -1.0530 | 0.400                    | -1.0643 | 0.400                      | -0.9495 |
| 0.450                       | -1.0619 | 0.450                    | -1.0847 | 0.450                      | -0.9869 |
| 0.500                       | -1.0448 | 0.500                    | -1.0957 | 0.500                      | -1.0420 |
| 0.550                       | -0.4832 | 0.550                    | -0.5686 | 0.550                      | -0.6635 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.5372 | 0.005 | 0.5286 | 0.005 | 0.4676 |
| 0.010         | 0.2882 | 0.010 | 0.2316 | 0.010 | 0.1088 |

Flight 24 Test point 54

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 25000. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 306.2 Rnpu = 2661000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9737  | 0.000                    | 1.0172  | 0.000                      | 1.0039  |
| 0.005                       | 0.1895  | 0.005                    | 0.2514  | 0.005                      | 0.5110  |
| 0.010                       | -0.0878 | 0.010                    | -0.0136 | 0.010                      | 0.2193  |
| 0.020                       | -0.3472 | 0.020                    | -0.2838 | 0.020                      | -0.1389 |
| 0.040                       | -0.5524 | 0.040                    | -0.4603 | 0.040                      | -0.3292 |
| 0.060                       | -0.6218 | 0.060                    | -0.5062 | 0.060                      | -0.4348 |
| 0.080                       | -0.6478 | 0.080                    | -0.5729 | 0.080                      | -0.4675 |
| 0.100                       | -0.6697 | 0.100                    | -0.6362 | 0.100                      | -0.4939 |
| 0.125                       | -0.6627 | 0.125                    | -0.6010 | 0.125                      | -0.5065 |
| 0.150                       | -0.7318 | 0.150                    | -0.6436 | 0.150                      | -0.5534 |
| 0.175                       | -0.7320 | 0.175                    | -0.6911 | 0.175                      | -0.6116 |
| 0.200                       | -0.7698 | 0.200                    | -0.7069 | 0.200                      | -0.6122 |
| 0.250                       | -0.8689 | 0.250                    | -0.8533 | 0.250                      | -0.6598 |
| 0.300                       | -0.8731 | 0.300                    | -0.8845 | 0.300                      | -0.6710 |
| 0.350                       | -0.7562 | 0.350                    | -0.8765 | 0.350                      | -0.7245 |
| 0.400                       | -0.6109 | 0.400                    | -0.8181 | 0.400                      | -0.6031 |
| 0.450                       | -0.5489 | 0.450                    | -0.5922 | 0.450                      | -0.5701 |
| 0.500                       | -0.5181 | 0.500                    | -0.5811 | 0.500                      | -0.5125 |
| 0.550                       | -0.4533 | 0.550                    | -0.5510 | 0.550                      | -0.4654 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.4100 | 0.005 | 0.4064 | 0.005 | 0.3268  |
| 0.010         | 0.1330 | 0.010 | 0.0793 | 0.010 | -0.0704 |

Fight 24 Test point 55

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 24900. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -5.3 QBAR, lb/ft<sup>2</sup> = 308.0 Rnpu = 2665000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0306  | 0.000                    | 1.0792  | 0.000                      | 1.0667  |
| 0.005                       | 0.2545  | 0.005                    | 0.3397  | 0.005                      | 0.6022  |
| 0.010                       | -0.0319 | 0.010                    | 0.0658  | 0.010                      | 0.3115  |
| 0.020                       | -0.2979 | 0.020                    | -0.2087 | 0.020                      | -0.0514 |
| 0.040                       | -0.5145 | 0.040                    | -0.4020 | 0.040                      | -0.2555 |
| 0.060                       | -0.5907 | 0.060                    | -0.4596 | 0.060                      | -0.3681 |
| 0.080                       | -0.6361 | 0.080                    | -0.5221 | 0.080                      | -0.4109 |
| 0.100                       | -0.6564 | 0.100                    | -0.5873 | 0.100                      | -0.4399 |
| 0.125                       | -0.6398 | 0.125                    | -0.5704 | 0.125                      | -0.4582 |
| 0.150                       | -0.7066 | 0.150                    | -0.6097 | 0.150                      | -0.5084 |
| 0.175                       | -0.7169 | 0.175                    | -0.6640 | 0.175                      | -0.5576 |
| 0.200                       | -0.8102 | 0.200                    | -0.6964 | 0.200                      | -0.5767 |
| 0.250                       | -0.8875 | 0.250                    | -0.8220 | 0.250                      | -0.6347 |
| 0.300                       | -0.9318 | 0.300                    | -0.8778 | 0.300                      | -0.6582 |
| 0.350                       | -0.8506 | 0.350                    | -0.8772 | 0.350                      | -0.7078 |
| 0.400                       | -0.5837 | 0.400                    | -0.8784 | 0.400                      | -0.6634 |
| 0.450                       | -0.5265 | 0.450                    | -0.5477 | 0.450                      | -0.5804 |
| 0.500                       | -0.5045 | 0.500                    | -0.5665 | 0.500                      | -0.5081 |
| 0.550                       | -0.4362 | 0.550                    | -0.5445 | 0.550                      | -0.4478 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4276 | 0.005 | 0.4067 | 0.005 | 0.3137  |
| 0.010 | 0.1489 | 0.010 | 0.0607 | 0.010 | -0.1123 |

Flight 24 Test point 56

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 26200. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 295.9 Rnpu = 2572000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9773  | 0.000                    | 1.0198  | 0.000                      | 1.0061  |
| 0.005                       | 0.2426  | 0.005                    | 0.3023  | 0.005                      | 0.5512  |
| 0.010                       | -0.0287 | 0.010                    | 0.0429  | 0.010                      | 0.2656  |
| 0.020                       | -0.2885 | 0.020                    | -0.2268 | 0.020                      | -0.0893 |
| 0.040                       | -0.4964 | 0.040                    | -0.4110 | 0.040                      | -0.2828 |
| 0.060                       | -0.5761 | 0.060                    | -0.4598 | 0.060                      | -0.3888 |
| 0.080                       | -0.6050 | 0.080                    | -0.5316 | 0.080                      | -0.4294 |
| 0.100                       | -0.6356 | 0.100                    | -0.5839 | 0.100                      | -0.4589 |
| 0.125                       | -0.6322 | 0.125                    | -0.5679 | 0.125                      | -0.4769 |
| 0.150                       | -0.7061 | 0.150                    | -0.6124 | 0.150                      | -0.5295 |
| 0.175                       | -0.7080 | 0.175                    | -0.6587 | 0.175                      | -0.5871 |
| 0.200                       | -0.7476 | 0.200                    | -0.6783 | 0.200                      | -0.5957 |
| 0.250                       | -0.8522 | 0.250                    | -0.8262 | 0.250                      | -0.6464 |
| 0.300                       | -0.8856 | 0.300                    | -0.8646 | 0.300                      | -0.6721 |
| 0.350                       | -0.7320 | 0.350                    | -0.8645 | 0.350                      | -0.7201 |
| 0.400                       | -0.6512 | 0.400                    | -0.8022 | 0.400                      | -0.6658 |
| 0.450                       | -0.5423 | 0.450                    | -0.5581 | 0.450                      | -0.5586 |
| 0.500                       | -0.5125 | 0.500                    | -0.5696 | 0.500                      | -0.5071 |
| 0.550                       | -0.4498 | 0.550                    | -0.5455 | 0.550                      | -0.4605 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.3693 | 0.005 | 0.3647 | 0.005 | 0.2874  |
| 0.010         | 0.0952 | 0.010 | 0.0315 | 0.010 | -0.1212 |

Fight 24 Test point 57

Sweep, deg = 20.0 Mach = 0.76 hp, ft = 24900. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 315.2 Rnpu = 2703000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9643  | 0.000                    | 0.9999  | 0.000                      | 0.9961  |
| 0.005                       | 0.0489  | 0.005                    | 0.1129  | 0.005                      | 0.3917  |
| 0.010                       | -0.2280 | 0.010                    | -0.1609 | 0.010                      | 0.0785  |
| 0.020                       | -0.4923 | 0.020                    | -0.4247 | 0.020                      | -0.2952 |
| 0.040                       | -0.7315 | 0.040                    | -0.6081 | 0.040                      | -0.4740 |
| 0.060                       | -0.7043 | 0.060                    | -0.6206 | 0.060                      | -0.5784 |
| 0.080                       | -0.8063 | 0.080                    | -0.6433 | 0.080                      | -0.6016 |
| 0.100                       | -0.8539 | 0.100                    | -0.7542 | 0.100                      | -0.6184 |
| 0.125                       | -0.6975 | 0.125                    | -0.8898 | 0.125                      | -0.6101 |
| 0.150                       | -0.8330 | 0.150                    | -0.7406 | 0.150                      | -0.6348 |
| 0.175                       | -0.8370 | 0.175                    | -0.7441 | 0.175                      | -0.6783 |
| 0.200                       | -0.9101 | 0.200                    | -0.7812 | 0.200                      | -0.7379 |
| 0.250                       | -0.9931 | 0.250                    | -0.9118 | 0.250                      | -0.8242 |
| 0.300                       | -1.0470 | 0.300                    | -0.9815 | 0.300                      | -0.8292 |
| 0.350                       | -1.0087 | 0.350                    | -1.0200 | 0.350                      | -0.8850 |
| 0.400                       | -0.9760 | 0.400                    | -1.0859 | 0.400                      | -0.8587 |
| 0.450                       | -0.5076 | 0.450                    | -1.0840 | 0.450                      | -0.8642 |
| 0.500                       | -0.4891 | 0.500                    | -0.4782 | 0.500                      | -0.4521 |
| 0.550                       | -0.4442 | 0.550                    | -0.4732 | 0.550                      | -0.4585 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.5288 | 0.005 | 0.5308 | 0.005 | 0.4638 |
| 0.010         | 0.2806 | 0.010 | 0.2331 | 0.010 | 0.1033 |

Flight 24 Test point 58

Sweep, deg = 25.3 Mach = 0.76 hp, ft = 25000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 313.9 Rnpu = 2693000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8926  | 0.000                    | 0.9325  | 0.000                      | 0.9259  |
| 0.005                       | 0.1005  | 0.005                    | 0.1490  | 0.005                      | 0.4055  |
| 0.010                       | -0.1578 | 0.010                    | -0.1027 | 0.010                      | 0.1179  |
| 0.020                       | -0.4050 | 0.020                    | -0.3503 | 0.020                      | -0.2210 |
| 0.040                       | -0.5800 | 0.040                    | -0.5082 | 0.040                      | -0.3901 |
| 0.060                       | -0.6402 | 0.060                    | -0.5362 | 0.060                      | -0.4834 |
| 0.080                       | -0.6592 | 0.080                    | -0.6043 | 0.080                      | -0.5053 |
| 0.100                       | -0.6636 | 0.100                    | -0.7106 | 0.100                      | -0.5231 |
| 0.125                       | -0.6704 | 0.125                    | -0.5902 | 0.125                      | -0.5269 |
| 0.150                       | -0.7068 | 0.150                    | -0.6418 | 0.150                      | -0.5681 |
| 0.175                       | -0.7077 | 0.175                    | -0.6782 | 0.175                      | -0.6424 |
| 0.200                       | -0.7539 | 0.200                    | -0.6787 | 0.200                      | -0.5942 |
| 0.250                       | -0.8187 | 0.250                    | -0.8482 | 0.250                      | -0.6404 |
| 0.300                       | -0.7998 | 0.300                    | -0.8346 | 0.300                      | -0.6494 |
| 0.350                       | -0.7352 | 0.350                    | -0.8042 | 0.350                      | -0.7205 |
| 0.400                       | -0.6053 | 0.400                    | -0.6312 | 0.400                      | -0.5811 |
| 0.450                       | -0.5413 | 0.450                    | -0.5917 | 0.450                      | -0.5491 |
| 0.500                       | -0.5063 | 0.500                    | -0.5611 | 0.500                      | -0.4902 |
| 0.550                       | -0.4379 | 0.550                    | -0.5309 | 0.550                      | -0.4593 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.4095 | 0.005 | 0.4177 | 0.005 | 0.3512  |
| 0.010         | 0.1640 | 0.010 | 0.1199 | 0.010 | -0.0072 |

Flight 24 Test point 59

Sweep, deg = 25.3 Mach = 0.75 hp, ft = 25000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 312.4 Rnpu = 2689000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8836  | 0.000                    | 0.9188  | 0.000                      | 0.9143  |
| 0.005                       | -0.0007 | 0.005                    | 0.0430  | 0.005                      | 0.3147  |
| 0.010                       | -0.2652 | 0.010                    | -0.2145 | 0.010                      | 0.0113  |
| 0.020                       | -0.5086 | 0.020                    | -0.4640 | 0.020                      | -0.3388 |
| 0.040                       | -0.6922 | 0.040                    | -0.6152 | 0.040                      | -0.4938 |
| 0.060                       | -0.6994 | 0.060                    | -0.6112 | 0.060                      | -0.5786 |
| 0.080                       | -0.8287 | 0.080                    | -0.6530 | 0.080                      | -0.5914 |
| 0.100                       | -0.7167 | 0.100                    | -0.7873 | 0.100                      | -0.6008 |
| 0.125                       | -0.6975 | 0.125                    | -0.7525 | 0.125                      | -0.5956 |
| 0.150                       | -0.7521 | 0.150                    | -0.6862 | 0.150                      | -0.6224 |
| 0.175                       | -0.7748 | 0.175                    | -0.7511 | 0.175                      | -0.6879 |
| 0.200                       | -0.8280 | 0.200                    | -0.7562 | 0.200                      | -0.7496 |
| 0.250                       | -0.8909 | 0.250                    | -0.8820 | 0.250                      | -0.7124 |
| 0.300                       | -0.8295 | 0.300                    | -0.9139 | 0.300                      | -0.6844 |
| 0.350                       | -0.7947 | 0.350                    | -0.9079 | 0.350                      | -0.7438 |
| 0.400                       | -0.6382 | 0.400                    | -0.6069 | 0.400                      | -0.5901 |
| 0.450                       | -0.5357 | 0.450                    | -0.5734 | 0.450                      | -0.5616 |
| 0.500                       | -0.5106 | 0.500                    | -0.5596 | 0.500                      | -0.5014 |
| 0.550                       | -0.4400 | 0.550                    | -0.5323 | 0.550                      | -0.4668 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4847 | 0.005 | 0.5023 | 0.005 | 0.4424 |
| 0.010 | 0.2531 | 0.010 | 0.2242 | 0.010 | 0.1107 |

Fight 24 Test point 60

Sweep, deg = 30.4 Mach = 0.75 hp, ft = 25000. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 310.9 Rnpu = 2685000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7967  | 0.000                    | 0.8278  | 0.000                      | 0.8251  |
| 0.005                       | -0.0123 | 0.005                    | 0.0204  | 0.005                      | 0.2830  |
| 0.010                       | -0.2498 | 0.010                    | -0.2049 | 0.010                      | 0.0061  |
| 0.020                       | -0.4576 | 0.020                    | -0.4253 | 0.020                      | -0.3063 |
| 0.040                       | -0.6029 | 0.040                    | -0.5463 | 0.040                      | -0.4419 |
| 0.060                       | -0.6614 | 0.060                    | -0.5571 | 0.060                      | -0.5055 |
| 0.080                       | -0.6229 | 0.080                    | -0.6381 | 0.080                      | -0.5116 |
| 0.100                       | -0.6718 | 0.100                    | -0.6074 | 0.100                      | -0.5233 |
| 0.125                       | -0.5844 | 0.125                    | -0.5897 | 0.125                      | -0.5151 |
| 0.150                       | -0.6560 | 0.150                    | -0.6152 | 0.150                      | -0.5510 |
| 0.175                       | -0.6553 | 0.175                    | -0.6426 | 0.175                      | -0.5737 |
| 0.200                       | -0.6964 | 0.200                    | -0.6912 | 0.200                      | -0.5564 |
| 0.250                       | -0.6928 | 0.250                    | -0.7267 | 0.250                      | -0.5894 |
| 0.300                       | -0.6804 | 0.300                    | -0.6893 | 0.300                      | -0.5844 |
| 0.350                       | -0.6260 | 0.350                    | -0.6286 | 0.350                      | -0.5736 |
| 0.400                       | -0.5600 | 0.400                    | -0.6040 | 0.400                      | -0.5390 |
| 0.450                       | -0.4951 | 0.450                    | -0.5361 | 0.450                      | -0.5003 |
| 0.500                       | -0.4696 | 0.500                    | -0.5092 | 0.500                      | -0.4486 |
| 0.550                       | -0.4079 | 0.550                    | -0.4885 | 0.550                      | -0.4312 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4042 | 0.005 | 0.4219 | 0.005 | 0.3655 |
| 0.010 | 0.1855 | 0.010 | 0.1637 | 0.010 | 0.0551 |



Flight 24 Test point 61

Sweep, deg = 30.4 Mach = 0.76 hp, ft = 25000. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 312.4 Rnpu = 2688000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8043  | 0.000                    | 0.8450  | 0.000                      | 0.8340  |
| 0.005                       | 0.1105  | 0.005                    | 0.1461  | 0.005                      | 0.3839  |
| 0.010                       | -0.1259 | 0.010                    | -0.0802 | 0.010                      | 0.1208  |
| 0.020                       | -0.3424 | 0.020                    | -0.3025 | 0.020                      | -0.1833 |
| 0.040                       | -0.4888 | 0.040                    | -0.4217 | 0.040                      | -0.3308 |
| 0.060                       | -0.5299 | 0.060                    | -0.4626 | 0.060                      | -0.4066 |
| 0.080                       | -0.5551 | 0.080                    | -0.5322 | 0.080                      | -0.4241 |
| 0.100                       | -0.5720 | 0.100                    | -0.5297 | 0.100                      | -0.4401 |
| 0.125                       | -0.5283 | 0.125                    | -0.5192 | 0.125                      | -0.4443 |
| 0.150                       | -0.6000 | 0.150                    | -0.5545 | 0.150                      | -0.4812 |
| 0.175                       | -0.5892 | 0.175                    | -0.5917 | 0.175                      | -0.5070 |
| 0.200                       | -0.6500 | 0.200                    | -0.6050 | 0.200                      | -0.5027 |
| 0.250                       | -0.6401 | 0.250                    | -0.6618 | 0.250                      | -0.5406 |
| 0.300                       | -0.6364 | 0.300                    | -0.6463 | 0.300                      | -0.5414 |
| 0.350                       | -0.5944 | 0.350                    | -0.5905 | 0.350                      | -0.5400 |
| 0.400                       | -0.5378 | 0.400                    | -0.5774 | 0.400                      | -0.5128 |
| 0.450                       | -0.4796 | 0.450                    | -0.5228 | 0.450                      | -0.4856 |
| 0.500                       | -0.4552 | 0.500                    | -0.4982 | 0.500                      | -0.4378 |
| 0.550                       | -0.4005 | 0.550                    | -0.4751 | 0.550                      | -0.4223 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3185 | 0.005 | 0.3311 | 0.005 | 0.2660  |
| 0.010 | 0.0865 | 0.010 | 0.0540 | 0.010 | -0.0687 |

Flight 24 Test point 62

Sweep, deg = 30.4 Mach = 0.75 hp, ft = 24500. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 319.0 Rnpu = 2735000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7810  | 0.000                    | 0.8112  | 0.000                      | 0.8135  |
| 0.005                       | -0.1042 | 0.005                    | -0.0792 | 0.005                      | 0.1933  |
| 0.010                       | -0.3473 | 0.010                    | -0.3067 | 0.010                      | -0.0960 |
| 0.020                       | -0.5586 | 0.020                    | -0.5361 | 0.020                      | -0.4145 |
| 0.040                       | -0.7271 | 0.040                    | -0.6448 | 0.040                      | -0.5296 |
| 0.060                       | -0.7319 | 0.060                    | -0.6218 | 0.060                      | -0.5916 |
| 0.080                       | -0.8358 | 0.080                    | -0.6895 | 0.080                      | -0.5945 |
| 0.100                       | -0.6996 | 0.100                    | -0.8335 | 0.100                      | -0.5973 |
| 0.125                       | -0.6699 | 0.125                    | -0.6127 | 0.125                      | -0.5852 |
| 0.150                       | -0.7332 | 0.150                    | -0.6705 | 0.150                      | -0.6194 |
| 0.175                       | -0.6910 | 0.175                    | -0.7100 | 0.175                      | -0.6865 |
| 0.200                       | -0.7566 | 0.200                    | -0.7235 | 0.200                      | -0.6040 |
| 0.250                       | -0.7818 | 0.250                    | -0.8039 | 0.250                      | -0.6441 |
| 0.300                       | -0.7267 | 0.300                    | -0.7475 | 0.300                      | -0.6425 |
| 0.350                       | -0.8627 | 0.350                    | -0.6558 | 0.350                      | -0.6050 |
| 0.400                       | -0.5831 | 0.400                    | -0.6233 | 0.400                      | -0.5580 |
| 0.450                       | -0.5125 | 0.450                    | -0.5568 | 0.450                      | -0.5143 |
| 0.500                       | -0.4812 | 0.500                    | -0.5194 | 0.500                      | -0.4563 |
| 0.550                       | -0.4130 | 0.550                    | -0.4985 | 0.550                      | -0.4353 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4753 | 0.005 | 0.5012 | 0.005 | 0.4485 |
| 0.010 | 0.2696 | 0.010 | 0.2594 | 0.010 | 0.1634 |

Flight 24 Test point 63

Sweep, deg = 30.4 Mach = 0.70 hp, ft = 24900. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 269.9 Rnpu = 2483000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7618  | 0.000                    | 0.7911  | 0.000                      | -0.8007 |
| 0.005                       | -0.1787 | 0.005                    | -0.1397 | 0.005                      | 0.1604  |
| 0.010                       | -0.4123 | 0.010                    | -0.3620 | 0.010                      | -0.1341 |
| 0.020                       | -0.6000 | 0.020                    | -0.5655 | 0.020                      | -0.4342 |
| 0.040                       | -0.6973 | 0.040                    | -0.6280 | 0.040                      | -0.5338 |
| 0.060                       | -0.7025 | 0.060                    | -0.6294 | 0.060                      | -0.5634 |
| 0.080                       | -0.6927 | 0.080                    | -0.6499 | 0.080                      | -0.5515 |
| 0.100                       | -0.6778 | 0.100                    | -0.6389 | 0.100                      | -0.5525 |
| 0.125                       | -0.5994 | 0.125                    | -0.6151 | 0.125                      | -0.5306 |
| 0.150                       | -0.6600 | 0.150                    | -0.6255 | 0.150                      | -0.5446 |
| 0.175                       | -0.6336 | 0.175                    | -0.6344 | 0.175                      | -0.5587 |
| 0.200                       | -0.6769 | 0.200                    | -0.6413 | 0.200                      | -0.5436 |
| 0.250                       | -0.6617 | 0.250                    | -0.6602 | 0.250                      | -0.5588 |
| 0.300                       | -0.6331 | 0.300                    | -0.6309 | 0.300                      | -0.5396 |
| 0.350                       | -0.5817 | 0.350                    | -0.5813 | 0.350                      | -0.5346 |
| 0.400                       | -0.5243 | 0.400                    | -0.5623 | 0.400                      | -0.5075 |
| 0.450                       | -0.4706 | 0.450                    | -0.5050 | 0.450                      | -0.4774 |
| 0.500                       | -0.4493 | 0.500                    | -0.4838 | 0.500                      | -0.4383 |
| 0.550                       | -0.3895 | 0.550                    | -0.4687 | 0.550                      | -0.4322 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4845 | 0.005 | 0.5069 | 0.005 | 0.4436 |
| 0.010 | 0.2848 | 0.010 | 0.2678 | 0.010 | 0.1573 |

Fight 24 Test point 64

Sweep, deg = 30.4 Mach = 0.70 hp, ft = 25300. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 267.5 Rnpu = 2458000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7977  | 0.000                    | 0.8359  | 0.000                      | 0.8285  |
| 0.005                       | 0.0887  | 0.005                    | 0.1365  | 0.005                      | 0.3860  |
| 0.010                       | -0.1390 | 0.010                    | -0.0848 | 0.010                      | 0.1306  |
| 0.020                       | -0.3423 | 0.020                    | -0.2927 | 0.020                      | -0.1580 |
| 0.040                       | -0.4773 | 0.040                    | -0.4121 | 0.040                      | -0.2992 |
| 0.060                       | -0.5120 | 0.060                    | -0.4363 | 0.060                      | -0.3686 |
| 0.080                       | -0.5178 | 0.080                    | -0.4656 | 0.080                      | -0.3815 |
| 0.100                       | -0.5205 | 0.100                    | -0.4711 | 0.100                      | -0.3923 |
| 0.125                       | -0.4829 | 0.125                    | -0.4704 | 0.125                      | -0.3936 |
| 0.150                       | -0.5424 | 0.150                    | -0.4969 | 0.150                      | -0.4197 |
| 0.175                       | -0.5305 | 0.175                    | -0.5160 | 0.175                      | -0.4404 |
| 0.200                       | -0.5757 | 0.200                    | -0.5268 | 0.200                      | -0.4367 |
| 0.250                       | -0.5759 | 0.250                    | -0.5681 | 0.250                      | -0.4699 |
| 0.300                       | -0.5564 | 0.300                    | -0.5497 | 0.300                      | -0.4631 |
| 0.350                       | -0.5216 | 0.350                    | -0.5201 | 0.350                      | -0.4730 |
| 0.400                       | -0.4791 | 0.400                    | -0.5149 | 0.400                      | -0.4541 |
| 0.450                       | -0.4338 | 0.450                    | -0.4637 | 0.450                      | -0.4376 |
| 0.500                       | -0.4163 | 0.500                    | -0.4538 | 0.500                      | -0.4063 |
| 0.550                       | -0.3665 | 0.550                    | -0.4407 | 0.550                      | -0.4079 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3015 | 0.005 | 0.3107 | 0.005 | 0.2318  |
| 0.010 | 0.0703 | 0.010 | 0.0357 | 0.010 | -0.1097 |

Flight 24 Test point 65

Sweep, deg = 30.4 Mach = 0.70 hp, ft = 24700. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 271.1 Rnpu = 2494000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7522  | 0.000                    | 0.7845  | 0.000                      | 0.7964  |
| 0.005                       | -0.2029 | 0.005                    | -0.1614 | 0.005                      | 0.1425  |
| 0.010                       | -0.4398 | 0.010                    | -0.3952 | 0.010                      | -0.1494 |
| 0.020                       | -0.6348 | 0.020                    | -0.5931 | 0.020                      | -0.4566 |
| 0.040                       | -0.7234 | 0.040                    | -0.6634 | 0.040                      | -0.5510 |
| 0.060                       | -0.7185 | 0.060                    | -0.6482 | 0.060                      | -0.5776 |
| 0.080                       | -0.7033 | 0.080                    | -0.6662 | 0.080                      | -0.5657 |
| 0.100                       | -0.6820 | 0.100                    | -0.6438 | 0.100                      | -0.5594 |
| 0.125                       | -0.6061 | 0.125                    | -0.6170 | 0.125                      | -0.5372 |
| 0.150                       | -0.6712 | 0.150                    | -0.6376 | 0.150                      | -0.5468 |
| 0.175                       | -0.6467 | 0.175                    | -0.6469 | 0.175                      | -0.5640 |
| 0.200                       | -0.6840 | 0.200                    | -0.6484 | 0.200                      | -0.5515 |
| 0.250                       | -0.6669 | 0.250                    | -0.6620 | 0.250                      | -0.5662 |
| 0.300                       | -0.6386 | 0.300                    | -0.6319 | 0.300                      | -0.5427 |
| 0.350                       | -0.5820 | 0.350                    | -0.5835 | 0.350                      | -0.5368 |
| 0.400                       | -0.5268 | 0.400                    | -0.5733 | 0.400                      | -0.5061 |
| 0.450                       | -0.4758 | 0.450                    | -0.5133 | 0.450                      | -0.4787 |
| 0.500                       | -0.4549 | 0.500                    | -0.4943 | 0.500                      | -0.4423 |
| 0.550                       | -0.3942 | 0.550                    | -0.4751 | 0.550                      | -0.4360 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4921 | 0.005 | 0.5170 | 0.005 | 0.4568 |
| 0.010 | 0.2939 | 0.010 | 0.2818 | 0.010 | 0.1721 |

Flight 24 Test point 66

Sweep, deg = 25.1 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 272.3 Rnpu = 2488000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8762  | 0.000                    | 0.9164  | 0.000                      | 0.9156  |
| 0.005                       | -0.0338 | 0.005                    | 0.0221  | 0.005                      | 0.3251  |
| 0.010                       | -0.2953 | 0.010                    | -0.2291 | 0.010                      | 0.0229  |
| 0.020                       | -0.5240 | 0.020                    | -0.4644 | 0.020                      | -0.3146 |
| 0.040                       | -0.6662 | 0.040                    | -0.5870 | 0.040                      | -0.4534 |
| 0.060                       | -0.6990 | 0.060                    | -0.6064 | 0.060                      | -0.5152 |
| 0.080                       | -0.6979 | 0.080                    | -0.6391 | 0.080                      | -0.5240 |
| 0.100                       | -0.6965 | 0.100                    | -0.6415 | 0.100                      | -0.5333 |
| 0.125                       | -0.6261 | 0.125                    | -0.6246 | 0.125                      | -0.5304 |
| 0.150                       | -0.6981 | 0.150                    | -0.6464 | 0.150                      | -0.5523 |
| 0.175                       | -0.6729 | 0.175                    | -0.6716 | 0.175                      | -0.5702 |
| 0.200                       | -0.7272 | 0.200                    | -0.6776 | 0.200                      | -0.5618 |
| 0.250                       | -0.7159 | 0.250                    | -0.7168 | 0.250                      | -0.5894 |
| 0.300                       | -0.6948 | 0.300                    | -0.6880 | 0.300                      | -0.5781 |
| 0.350                       | -0.6268 | 0.350                    | -0.6318 | 0.350                      | -0.5803 |
| 0.400                       | -0.5728 | 0.400                    | -0.6159 | 0.400                      | -0.5464 |
| 0.450                       | -0.5100 | 0.450                    | -0.5520 | 0.450                      | -0.5139 |
| 0.500                       | -0.4889 | 0.500                    | -0.5334 | 0.500                      | -0.4712 |
| 0.550                       | -0.4256 | 0.550                    | -0.5102 | 0.550                      | -0.4521 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4672 | 0.005 | 0.4773 | 0.005 | 0.4013 |
| 0.010 | 0.2326 | 0.010 | 0.1991 | 0.010 | 0.0592 |

Fight 24 Test point 67

Sweep, deg = 25.0 Mach = 0.71 hp, ft = 25500, Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 269.9 Rnpu = 2460000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8876  | 0.000                    | 0.9324  | 0.000                      | 0.9212  |
| 0.005                       | 0.1310  | 0.005                    | 0.1890  | 0.005                      | 0.4558  |
| 0.010                       | -0.1232 | 0.010                    | -0.0548 | 0.010                      | 0.1753  |
| 0.020                       | -0.3586 | 0.020                    | -0.2968 | 0.020                      | -0.1471 |
| 0.040                       | -0.5165 | 0.040                    | -0.4417 | 0.040                      | -0.3073 |
| 0.060                       | -0.5660 | 0.060                    | -0.4768 | 0.060                      | -0.3910 |
| 0.080                       | -0.5854 | 0.080                    | -0.5173 | 0.080                      | -0.4167 |
| 0.100                       | -0.5926 | 0.100                    | -0.5340 | 0.100                      | -0.4311 |
| 0.125                       | -0.5455 | 0.125                    | -0.5293 | 0.125                      | -0.4367 |
| 0.150                       | -0.6165 | 0.150                    | -0.5596 | 0.150                      | -0.4675 |
| 0.175                       | -0.6036 | 0.175                    | -0.5937 | 0.175                      | -0.4922 |
| 0.200                       | -0.6547 | 0.200                    | -0.6053 | 0.200                      | -0.4916 |
| 0.250                       | -0.6532 | 0.250                    | -0.6476 | 0.250                      | -0.5310 |
| 0.300                       | -0.6382 | 0.300                    | -0.6275 | 0.300                      | -0.5248 |
| 0.350                       | -0.5889 | 0.350                    | -0.5924 | 0.350                      | -0.5376 |
| 0.400                       | -0.5449 | 0.400                    | -0.5844 | 0.400                      | -0.5141 |
| 0.450                       | -0.4861 | 0.450                    | -0.5261 | 0.450                      | -0.4849 |
| 0.500                       | -0.4687 | 0.500                    | -0.5131 | 0.500                      | -0.4482 |
| 0.550                       | -0.4073 | 0.550                    | -0.4917 | 0.550                      | -0.4414 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.3471 | 0.005 | 0.3472 | 0.005 | 0.2605  |
| 0.010         | 0.0962 | 0.010 | 0.0440 | 0.010 | -0.1134 |

Fight 24 Test point 68

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 25100. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 268.9 Rnpu = 2468000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9547  | 0.000                    | 1.0015  | 0.000                      | 0.9931  |
| 0.005                       | 0.1219  | 0.005                    | 0.1935  | 0.005                      | 0.4799  |
| 0.010                       | -0.1520 | 0.010                    | -0.0695 | 0.010                      | 0.1795  |
| 0.020                       | -0.4089 | 0.020                    | -0.3348 | 0.020                      | -0.1674 |
| 0.040                       | -0.5802 | 0.040                    | -0.4931 | 0.040                      | -0.3435 |
| 0.060                       | -0.6281 | 0.060                    | -0.5271 | 0.060                      | -0.4295 |
| 0.080                       | -0.6501 | 0.080                    | -0.5670 | 0.080                      | -0.4541 |
| 0.100                       | -0.6608 | 0.100                    | -0.5841 | 0.100                      | -0.4706 |
| 0.125                       | -0.6020 | 0.125                    | -0.5837 | 0.125                      | -0.4805 |
| 0.150                       | -0.6829 | 0.150                    | -0.6149 | 0.150                      | -0.5093 |
| 0.175                       | -0.6674 | 0.175                    | -0.6522 | 0.175                      | -0.5322 |
| 0.200                       | -0.7245 | 0.200                    | -0.6718 | 0.200                      | -0.5401 |
| 0.250                       | -0.7223 | 0.250                    | -0.7123 | 0.250                      | -0.5809 |
| 0.300                       | -0.7006 | 0.300                    | -0.6922 | 0.300                      | -0.5783 |
| 0.350                       | -0.6448 | 0.350                    | -0.6376 | 0.350                      | -0.5831 |
| 0.400                       | -0.5827 | 0.400                    | -0.6379 | 0.400                      | -0.5541 |
| 0.450                       | -0.5201 | 0.450                    | -0.5626 | 0.450                      | -0.5206 |
| 0.500                       | -0.4995 | 0.500                    | -0.5493 | 0.500                      | -0.4774 |
| 0.550                       | -0.4290 | 0.550                    | -0.5250 | 0.550                      | -0.4571 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4114 | 0.005 | 0.4150 | 0.005 | 0.3185  |
| 0.010 | 0.1490 | 0.010 | 0.0937 | 0.010 | -0.0740 |



Flight 24 Test point 69

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = -5.2 QBAR, lb/ft<sup>2</sup> = 265.4 Rnpu = 2450000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0135  | 0.000                    | 1.0566  | 0.000                      | 1.0511  |
| 0.005                       | 0.1143  | 0.005                    | 0.2176  | 0.005                      | 0.5306  |
| 0.010                       | -0.1707 | 0.010                    | -0.0556 | 0.010                      | 0.2248  |
| 0.020                       | -0.4349 | 0.020                    | -0.3268 | 0.020                      | -0.1389 |
| 0.040                       | -0.6129 | 0.040                    | -0.4923 | 0.040                      | -0.3233 |
| 0.060                       | -0.6553 | 0.060                    | -0.5276 | 0.060                      | -0.4128 |
| 0.080                       | -0.6815 | 0.080                    | -0.5654 | 0.080                      | -0.4362 |
| 0.100                       | -0.6868 | 0.100                    | -0.5906 | 0.100                      | -0.4549 |
| 0.125                       | -0.6267 | 0.125                    | -0.5928 | 0.125                      | -0.4673 |
| 0.150                       | -0.7125 | 0.150                    | -0.6201 | 0.150                      | -0.4998 |
| 0.175                       | -0.6917 | 0.175                    | -0.6572 | 0.175                      | -0.5199 |
| 0.200                       | -0.7510 | 0.200                    | -0.6770 | 0.200                      | -0.5356 |
| 0.250                       | -0.7420 | 0.250                    | -0.7207 | 0.250                      | -0.5699 |
| 0.300                       | -0.7126 | 0.300                    | -0.7040 | 0.300                      | -0.5722 |
| 0.350                       | -0.6485 | 0.350                    | -0.6455 | 0.350                      | -0.5839 |
| 0.400                       | -0.5851 | 0.400                    | -0.6436 | 0.400                      | -0.5617 |
| 0.450                       | -0.5201 | 0.450                    | -0.5644 | 0.450                      | -0.5367 |
| 0.500                       | -0.4906 | 0.500                    | -0.5488 | 0.500                      | -0.4755 |
| 0.550                       | -0.4254 | 0.550                    | -0.5198 | 0.550                      | -0.4463 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.4814 | 0.005 | 0.4605 | 0.005 | 0.3489  |
| 0.010         | 0.2133 | 0.010 | 0.1263 | 0.010 | -0.0606 |

Flight 24 Test point 70

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 25200. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 267.6 Rrho = 2458000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9616  | 0.000                    | 1.0037  | 0.000                      | 0.9908  |
| 0.005                       | 0.1708  | 0.005                    | 0.2469  | 0.005                      | 0.5225  |
| 0.010                       | -0.1006 | 0.010                    | -0.0146 | 0.010                      | 0.2305  |
| 0.020                       | -0.3539 | 0.020                    | -0.2773 | 0.020                      | -0.1176 |
| 0.040                       | -0.5346 | 0.040                    | -0.4406 | 0.040                      | -0.2958 |
| 0.060                       | -0.5847 | 0.060                    | -0.4789 | 0.060                      | -0.3893 |
| 0.080                       | -0.6136 | 0.080                    | -0.5252 | 0.080                      | -0.4136 |
| 0.100                       | -0.6249 | 0.100                    | -0.5498 | 0.100                      | -0.4336 |
| 0.125                       | -0.5704 | 0.125                    | -0.5544 | 0.125                      | -0.4485 |
| 0.150                       | -0.6553 | 0.150                    | -0.5923 | 0.150                      | -0.4812 |
| 0.175                       | -0.6410 | 0.175                    | -0.6218 | 0.175                      | -0.5070 |
| 0.200                       | -0.7022 | 0.200                    | -0.6394 | 0.200                      | -0.5172 |
| 0.250                       | -0.6990 | 0.250                    | -0.6876 | 0.250                      | -0.5572 |
| 0.300                       | -0.6784 | 0.300                    | -0.6749 | 0.300                      | -0.5585 |
| 0.350                       | -0.6240 | 0.350                    | -0.6245 | 0.350                      | -0.5648 |
| 0.400                       | -0.5642 | 0.400                    | -0.6270 | 0.400                      | -0.5427 |
| 0.450                       | -0.5082 | 0.450                    | -0.5597 | 0.450                      | -0.5175 |
| 0.500                       | -0.4893 | 0.500                    | -0.5411 | 0.500                      | -0.4726 |
| 0.550                       | -0.4254 | 0.550                    | -0.5186 | 0.550                      | -0.4491 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3730 | 0.005 | 0.3625 | 0.005 | 0.2630  |
| 0.010 | 0.1036 | 0.010 | 0.0358 | 0.010 | -0.1422 |

Flight 24 Test point 71

Sweep, deg = 20.0 Mach = 0.71 hp, ft = 24800. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 275.1 Rnpu = 2512000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9411  | 0.000                    | 0.9819  | 0.000                      | 0.9789  |
| 0.005                       | -0.0428 | 0.005                    | 0.0226  | 0.005                      | 0.3438  |
| 0.010                       | -0.3259 | 0.010                    | -0.2510 | 0.010                      | 0.0261  |
| 0.020                       | -0.5825 | 0.020                    | -0.5084 | 0.020                      | -0.3437 |
| 0.040                       | -0.7481 | 0.040                    | -0.6504 | 0.040                      | -0.4999 |
| 0.060                       | -0.7837 | 0.060                    | -0.6603 | 0.060                      | -0.5754 |
| 0.080                       | -0.7891 | 0.080                    | -0.7078 | 0.080                      | -0.5803 |
| 0.100                       | -0.7902 | 0.100                    | -0.7299 | 0.100                      | -0.5882 |
| 0.125                       | -0.6976 | 0.125                    | -0.7006 | 0.125                      | -0.5884 |
| 0.150                       | -0.7915 | 0.150                    | -0.7247 | 0.150                      | -0.6142 |
| 0.175                       | -0.7581 | 0.175                    | -0.7564 | 0.175                      | -0.6398 |
| 0.200                       | -0.8321 | 0.200                    | -0.7721 | 0.200                      | -0.6340 |
| 0.250                       | -0.8075 | 0.250                    | -0.8110 | 0.250                      | -0.6594 |
| 0.300                       | -0.7721 | 0.300                    | -0.7831 | 0.300                      | -0.6506 |
| 0.350                       | -0.6899 | 0.350                    | -0.7062 | 0.350                      | -0.6458 |
| 0.400                       | -0.6195 | 0.400                    | -0.6902 | 0.400                      | -0.6002 |
| 0.450                       | -0.5505 | 0.450                    | -0.6056 | 0.450                      | -0.5667 |
| 0.500                       | -0.5222 | 0.500                    | -0.5795 | 0.500                      | -0.5122 |
| 0.550                       | -0.4506 | 0.550                    | -0.5451 | 0.550                      | -0.4745 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5385 | 0.005 | 0.5418 | 0.005 | 0.4632 |
| 0.010 | 0.2881 | 0.010 | 0.2476 | 0.010 | 0.1003 |

Flight 24 Test point 72

Sweep, deg = 20.0 Mach = 0.79 hp, ft = 34700. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 221.9 Rnpu = 1981000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0423  | 0.000                    | 1.0916  | 0.000                      | 1.0786  |
| 0.005                       | 0.2057  | 0.005                    | 0.2856  | 0.005                      | 0.5452  |
| 0.010                       | -0.0759 | 0.010                    | 0.0186  | 0.010                      | 0.2444  |
| 0.020                       | -0.3378 | 0.020                    | -0.2567 | 0.020                      | -0.1150 |
| 0.040                       | -0.5900 | 0.040                    | -0.4526 | 0.040                      | -0.3182 |
| 0.060                       | -0.6077 | 0.060                    | -0.4870 | 0.060                      | -0.4437 |
| 0.080                       | -0.6659 | 0.080                    | -0.5089 | 0.080                      | -0.4790 |
| 0.100                       | -0.7729 | 0.100                    | -0.6013 | 0.100                      | -0.5027 |
| 0.125                       | -0.6588 | 0.125                    | -0.7526 | 0.125                      | -0.5036 |
| 0.150                       | -0.7661 | 0.150                    | -0.6935 | 0.150                      | -0.5490 |
| 0.175                       | -0.7677 | 0.175                    | -0.6707 | 0.175                      | -0.5598 |
| 0.200                       | -0.8505 | 0.200                    | -0.7044 | 0.200                      | -0.6239 |
| 0.250                       | -0.9394 | 0.250                    | -0.8242 | 0.250                      | -0.7889 |
| 0.300                       | -1.0205 | 0.300                    | -0.9013 | 0.300                      | -0.7868 |
| 0.350                       | -1.0233 | 0.350                    | -0.9513 | 0.350                      | -0.8478 |
| 0.400                       | -1.0340 | 0.400                    | -1.0345 | 0.400                      | -0.8768 |
| 0.450                       | -1.0534 | 0.450                    | -1.0598 | 0.450                      | -0.9230 |
| 0.500                       | -0.7914 | 0.500                    | -1.1057 | 0.500                      | -0.9566 |
| 0.550                       | -0.4757 | 0.550                    | -0.6521 | 0.550                      | -0.9023 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5433 | 0.005 | 0.5338 | 0.005 | 0.4704 |
| 0.010 | 0.2841 | 0.010 | 0.2166 | 0.010 | 0.0747 |

Flight 24 Test point 73

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 222.1 Rnpu = 1981000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9934  | 0.000                    | 1.0374  | 0.000                      | 1.0199  |
| 0.005                       | 0.2038  | 0.005                    | 0.2629  | 0.005                      | 0.5069  |
| 0.010                       | -0.0651 | 0.010                    | 0.0109  | 0.010                      | 0.2081  |
| 0.020                       | -0.3205 | 0.020                    | -0.2590 | 0.020                      | -0.1382 |
| 0.040                       | -0.5635 | 0.040                    | -0.4543 | 0.040                      | -0.3316 |
| 0.060                       | -0.5655 | 0.060                    | -0.4778 | 0.060                      | -0.4475 |
| 0.080                       | -0.6729 | 0.080                    | -0.5067 | 0.080                      | -0.4871 |
| 0.100                       | -0.7194 | 0.100                    | -0.6195 | 0.100                      | -0.5128 |
| 0.125                       | -0.6258 | 0.125                    | -0.7586 | 0.125                      | -0.5122 |
| 0.150                       | -0.7439 | 0.150                    | -0.6638 | 0.150                      | -0.5637 |
| 0.175                       | -0.7416 | 0.175                    | -0.6770 | 0.175                      | -0.5581 |
| 0.200                       | -0.8264 | 0.200                    | -0.6945 | 0.200                      | -0.6265 |
| 0.250                       | -0.9136 | 0.250                    | -0.8176 | 0.250                      | -0.7696 |
| 0.300                       | -0.9934 | 0.300                    | -0.9040 | 0.300                      | -0.7940 |
| 0.350                       | -0.9885 | 0.350                    | -0.9395 | 0.350                      | -0.8608 |
| 0.400                       | -0.9765 | 0.400                    | -1.0239 | 0.400                      | -0.8817 |
| 0.450                       | -0.9796 | 0.450                    | -1.0457 | 0.450                      | -0.9494 |
| 0.500                       | -1.0805 | 0.500                    | -1.0920 | 0.500                      | -0.9836 |
| 0.550                       | -0.4683 | 0.550                    | -0.5757 | 0.550                      | -0.8407 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.4734 | 0.005 | 0.4798 | 0.005 | 0.4216 |
| 0.010         | 0.2176 | 0.010 | 0.1656 | 0.010 | 0.0418 |

Flight 25 Test point 1

Sweep, deg = 20.0 Mach = 0.71 hp, ft = 34900. Angle of attack, deg = 3.4  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 173.9 Rnpu = 1703000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8430  | 0.000                    | 0.8832  | 0.000                      | 0.9115  |
| 0.005                       | -0.4459 | 0.005                    | -0.3947 | 0.005                      | 0.0020  |
| 0.010                       | -0.7352 | 0.010                    | -0.6874 | 0.010                      | -0.3812 |
| 0.020                       | -0.9866 | 0.020                    | -0.9190 | 0.020                      | -0.7912 |
| 0.040                       | -1.1668 | 0.040                    | -1.1163 | 0.040                      | -0.8970 |
| 0.060                       | -1.2539 | 0.060                    | -1.0821 | 0.060                      | -0.9881 |
| 0.080                       | -1.1752 | 0.080                    | -1.0179 | 0.080                      | -0.9076 |
| 0.100                       | -1.1828 | 0.100                    | -0.9639 | 0.100                      | -0.8574 |
| 0.125                       | -0.9993 | 0.125                    | -1.0788 | 0.125                      | -0.8082 |
| 0.150                       | -1.1107 | 0.150                    | -1.0827 | 0.150                      | -0.7997 |
| 0.175                       | -1.0036 | 0.175                    | -0.9710 | 0.175                      | -0.8450 |
| 0.200                       | -1.0366 | 0.200                    | -0.8836 | 0.200                      | -0.8676 |
| 0.250                       | -0.9064 | 0.250                    | -1.0221 | 0.250                      | -0.8331 |
| 0.300                       | -0.8517 | 0.300                    | -0.9789 | 0.300                      | -0.7447 |
| 0.350                       | -0.7631 | 0.350                    | -0.7763 | 0.350                      | -0.7295 |
| 0.400                       | -0.6631 | 0.400                    | -0.7457 | 0.400                      | -0.6700 |
| 0.450                       | -0.5767 | 0.450                    | -0.6367 | 0.450                      | -0.6188 |
| 0.500                       | -0.5401 | 0.500                    | -0.5927 | 0.500                      | -0.5382 |
| 0.550                       | -0.4472 | 0.550                    | -0.5486 | 0.550                      | -0.4853 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.7535 | 0.005 | 0.7919 | 0.005 | 0.7419 |
| 0.010 | 0.5531 | 0.010 | 0.5553 | 0.010 | 0.4548 |

Fight 25 Test point 2

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 170.1 Rnpu = 1681000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9642  | 0.000                    | 1.0245  | 0.000                      | 1.0091  |
| 0.005                       | 0.1973  | 0.005                    | 0.2632  | 0.005                      | 0.5438  |
| 0.010                       | -0.0788 | 0.010                    | 0.0178  | 0.010                      | 0.2514  |
| 0.020                       | -0.3220 | 0.020                    | -0.2468 | 0.020                      | -0.0850 |
| 0.040                       | -0.5016 | 0.040                    | -0.4107 | 0.040                      | -0.2679 |
| 0.060                       | -0.5637 | 0.060                    | -0.4531 | 0.060                      | -0.3543 |
| 0.080                       | -0.5895 | 0.080                    | -0.4957 | 0.080                      | -0.3831 |
| 0.100                       | -0.5955 | 0.100                    | -0.5186 | 0.100                      | -0.4088 |
| 0.125                       | -0.5596 | 0.125                    | -0.5187 | 0.125                      | -0.4178 |
| 0.150                       | -0.6296 | 0.150                    | -0.5569 | 0.150                      | -0.4554 |
| 0.175                       | -0.6188 | 0.175                    | -0.5905 | 0.175                      | -0.4816 |
| 0.200                       | -0.6769 | 0.200                    | -0.6125 | 0.200                      | -0.4850 |
| 0.250                       | -0.6756 | 0.250                    | -0.6605 | 0.250                      | -0.5343 |
| 0.300                       | -0.6575 | 0.300                    | -0.6511 | 0.300                      | -0.5277 |
| 0.350                       | -0.6089 | 0.350                    | -0.6058 | 0.350                      | -0.5403 |
| 0.400                       | -0.5461 | 0.400                    | -0.6042 | 0.400                      | -0.5249 |
| 0.450                       | -0.4832 | 0.450                    | -0.5185 | 0.450                      | -0.4995 |
| 0.500                       | -0.4715 | 0.500                    | -0.5233 | 0.500                      | -0.4451 |
| 0.550                       | -0.3964 | 0.550                    | -0.4991 | 0.550                      | -0.4280 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3518 | 0.005 | 0.3764 | 0.005 | 0.2736  |
| 0.010 | 0.0865 | 0.010 | 0.0409 | 0.010 | -0.1398 |

Fight 25 Test point 3

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.6 QBAR, lb/ft<sup>2</sup> = 172.5 Rnpu = 1691000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9520  | 0.000                    | 1.0069  | 0.000                      | 0.9974  |
| 0.005                       | -0.0089 | 0.005                    | 0.0625  | 0.005                      | 0.3893  |
| 0.010                       | -0.2874 | 0.010                    | -0.1937 | 0.010                      | 0.0679  |
| 0.020                       | -0.5332 | 0.020                    | -0.4552 | 0.020                      | -0.2836 |
| 0.040                       | -0.7024 | 0.040                    | -0.6065 | 0.040                      | -0.4512 |
| 0.060                       | -0.7340 | 0.060                    | -0.6121 | 0.060                      | -0.5174 |
| 0.080                       | -0.7506 | 0.080                    | -0.6463 | 0.080                      | -0.5272 |
| 0.100                       | -0.7366 | 0.100                    | -0.6731 | 0.100                      | -0.5363 |
| 0.125                       | -0.6606 | 0.125                    | -0.6607 | 0.125                      | -0.5354 |
| 0.150                       | -0.7592 | 0.150                    | -0.6848 | 0.150                      | -0.5718 |
| 0.175                       | -0.7280 | 0.175                    | -0.7099 | 0.175                      | -0.5959 |
| 0.200                       | -0.7962 | 0.200                    | -0.7249 | 0.200                      | -0.5920 |
| 0.250                       | -0.7736 | 0.250                    | -0.7647 | 0.250                      | -0.6268 |
| 0.300                       | -0.7295 | 0.300                    | -0.7353 | 0.300                      | -0.6103 |
| 0.350                       | -0.6644 | 0.350                    | -0.6841 | 0.350                      | -0.6106 |
| 0.400                       | -0.5960 | 0.400                    | -0.6599 | 0.400                      | -0.5791 |
| 0.450                       | -0.5210 | 0.450                    | -0.5743 | 0.450                      | -0.5347 |
| 0.500                       | -0.5044 | 0.500                    | -0.5606 | 0.500                      | -0.4895 |
| 0.550                       | -0.4258 | 0.550                    | -0.5177 | 0.550                      | -0.4467 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.5188 | 0.005 | 0.5387 | 0.005 | 0.4468 |
| 0.010         | 0.2695 | 0.010 | 0.2312 | 0.010 | 0.0724 |



Flight 25 Test point 4

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 35400. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 166.3 Rnpu = 1643000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8811  | 0.000                    | 0.9416  | 0.000                      | 0.9220  |
| 0.005                       | 0.2076  | 0.005                    | 0.2504  | 0.005                      | 0.5083  |
| 0.010                       | -0.0486 | 0.010                    | 0.0350  | 0.010                      | 0.2432  |
| 0.020                       | -0.2718 | 0.020                    | -0.2129 | 0.020                      | -0.0639 |
| 0.040                       | -0.4322 | 0.040                    | -0.3630 | 0.040                      | -0.2361 |
| 0.060                       | -0.4906 | 0.060                    | -0.3953 | 0.060                      | -0.3126 |
| 0.080                       | -0.5195 | 0.080                    | -0.4393 | 0.080                      | -0.3405 |
| 0.100                       | -0.5155 | 0.100                    | -0.4515 | 0.100                      | -0.3619 |
| 0.125                       | -0.4833 | 0.125                    | -0.4573 | 0.125                      | -0.3783 |
| 0.150                       | -0.5513 | 0.150                    | -0.4945 | 0.150                      | -0.4053 |
| 0.175                       | -0.5426 | 0.175                    | -0.5173 | 0.175                      | -0.4358 |
| 0.200                       | -0.5965 | 0.200                    | -0.5379 | 0.200                      | -0.4329 |
| 0.250                       | -0.5919 | 0.250                    | -0.5826 | 0.250                      | -0.4803 |
| 0.300                       | -0.5793 | 0.300                    | -0.5668 | 0.300                      | -0.4633 |
| 0.350                       | -0.5424 | 0.350                    | -0.5265 | 0.350                      | -0.4812 |
| 0.400                       | -0.4912 | 0.400                    | -0.5350 | 0.400                      | -0.4681 |
| 0.450                       | -0.4372 | 0.450                    | -0.4666 | 0.450                      | -0.4494 |
| 0.500                       | -0.4328 | 0.500                    | -0.4690 | 0.500                      | -0.4097 |
| 0.550                       | -0.3719 | 0.550                    | -0.4547 | 0.550                      | -0.4097 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2776 | 0.005 | 0.3062  | 0.005 | 0.2082  |
| 0.010 | 0.0249 | 0.010 | -0.0145 | 0.010 | -0.1830 |

Fight 25 Test point 5

Sweep, deg = 25.3 Mach = 0.71 hp, ft = 35000. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 174.1 Rnpu = 1695000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8721  | 0.000                    | 0.9209  | 0.000                      | 0.9182  |
| 0.005                       | 0.0000  | 0.005                    | 0.0496  | 0.005                      | 0.3436  |
| 0.010                       | -0.2589 | 0.010                    | -0.1887 | 0.010                      | 0.0454  |
| 0.020                       | -0.4827 | 0.020                    | -0.4227 | 0.020                      | -0.2700 |
| 0.040                       | -0.6331 | 0.040                    | -0.5535 | 0.040                      | -0.4188 |
| 0.060                       | -0.6599 | 0.060                    | -0.5658 | 0.060                      | -0.4834 |
| 0.080                       | -0.6623 | 0.080                    | -0.5984 | 0.080                      | -0.4894 |
| 0.100                       | -0.6576 | 0.100                    | -0.6140 | 0.100                      | -0.5021 |
| 0.125                       | -0.5973 | 0.125                    | -0.5909 | 0.125                      | -0.5034 |
| 0.150                       | -0.6714 | 0.150                    | -0.6114 | 0.150                      | -0.5243 |
| 0.175                       | -0.6488 | 0.175                    | -0.6379 | 0.175                      | -0.5429 |
| 0.200                       | -0.7036 | 0.200                    | -0.6449 | 0.200                      | -0.5343 |
| 0.250                       | -0.6897 | 0.250                    | -0.6924 | 0.250                      | -0.5677 |
| 0.300                       | -0.6565 | 0.300                    | -0.6591 | 0.300                      | -0.5444 |
| 0.350                       | -0.6109 | 0.350                    | -0.6032 | 0.350                      | -0.5516 |
| 0.400                       | -0.5469 | 0.400                    | -0.5989 | 0.400                      | -0.5230 |
| 0.450                       | -0.4873 | 0.450                    | -0.5227 | 0.450                      | -0.4956 |
| 0.500                       | -0.4717 | 0.500                    | -0.5094 | 0.500                      | -0.4473 |
| 0.550                       | -0.4007 | 0.550                    | -0.4894 | 0.550                      | -0.4284 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4489 | 0.005 | 0.4754 | 0.005 | 0.4003 |
| 0.010 | 0.2088 | 0.010 | 0.1910 | 0.010 | 0.0444 |

Fight 25 Test point 6

Sweep, deg = 30.2 Mach = 0.70 hp, ft = 35300. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 167.8 Rnpu = 1650000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7955  | 0.000                    | 0.8519  | 0.000                      | 0.8346  |
| 0.005                       | 0.1926  | 0.005                    | 0.2373  | 0.005                      | 0.4697  |
| 0.010                       | -0.0351 | 0.010                    | 0.0419  | 0.010                      | 0.2220  |
| 0.020                       | -0.2357 | 0.020                    | -0.1870 | 0.020                      | -0.0497 |
| 0.040                       | -0.3820 | 0.040                    | -0.3155 | 0.040                      | -0.2047 |
| 0.060                       | -0.4232 | 0.060                    | -0.3511 | 0.060                      | -0.2786 |
| 0.080                       | -0.4548 | 0.080                    | -0.3885 | 0.080                      | -0.2998 |
| 0.100                       | -0.4467 | 0.100                    | -0.3980 | 0.100                      | -0.3195 |
| 0.125                       | -0.4266 | 0.125                    | -0.4002 | 0.125                      | -0.3327 |
| 0.150                       | -0.4796 | 0.150                    | -0.4319 | 0.150                      | -0.3573 |
| 0.175                       | -0.4795 | 0.175                    | -0.4478 | 0.175                      | -0.3848 |
| 0.200                       | -0.5219 | 0.200                    | -0.4625 | 0.200                      | -0.3807 |
| 0.250                       | -0.5177 | 0.250                    | -0.5117 | 0.250                      | -0.4214 |
| 0.300                       | -0.5045 | 0.300                    | -0.5038 | 0.300                      | -0.4082 |
| 0.350                       | -0.4771 | 0.350                    | -0.4631 | 0.350                      | -0.4251 |
| 0.400                       | -0.4396 | 0.400                    | -0.4686 | 0.400                      | -0.4087 |
| 0.450                       | -0.3924 | 0.450                    | -0.4198 | 0.450                      | -0.3982 |
| 0.500                       | -0.3876 | 0.500                    | -0.4269 | 0.500                      | -0.3692 |
| 0.550                       | -0.3353 | 0.550                    | -0.4154 | 0.550                      | -0.3749 |

| Lower surface |         |       |         |       |         |
|---------------|---------|-------|---------|-------|---------|
| 0.005         | 0.2105  | 0.005 | 0.2461  | 0.005 | 0.1494  |
| 0.010         | -0.0192 | 0.010 | -0.0487 | 0.010 | -0.2084 |

Fight 25 Test point 7

Sweep, deg = 30.1 Mach = 0.70 hp, ft = 34800. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 174.5 Rnpu = 1702000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7848  | 0.000                    | 0.8270  | 0.000                      | 0.8235  |
| 0.005                       | -0.0656 | 0.005                    | -0.0248 | 0.005                      | 0.2563  |
| 0.010                       | -0.2957 | 0.010                    | -0.2386 | 0.010                      | -0.0177 |
| 0.020                       | -0.4898 | 0.020                    | -0.4514 | 0.020                      | -0.3128 |
| 0.040                       | -0.6038 | 0.040                    | -0.5511 | 0.040                      | -0.4313 |
| 0.060                       | -0.6180 | 0.060                    | -0.5439 | 0.060                      | -0.4701 |
| 0.080                       | -0.6195 | 0.080                    | -0.5619 | 0.080                      | -0.4724 |
| 0.100                       | -0.6017 | 0.100                    | -0.5680 | 0.100                      | -0.4781 |
| 0.125                       | -0.5485 | 0.125                    | -0.5377 | 0.125                      | -0.4693 |
| 0.150                       | -0.6117 | 0.150                    | -0.5649 | 0.150                      | -0.4851 |
| 0.175                       | -0.5858 | 0.175                    | -0.5783 | 0.175                      | -0.5091 |
| 0.200                       | -0.6337 | 0.200                    | -0.5854 | 0.200                      | -0.4928 |
| 0.250                       | -0.6224 | 0.250                    | -0.6171 | 0.250                      | -0.5190 |
| 0.300                       | -0.5895 | 0.300                    | -0.5933 | 0.300                      | -0.4924 |
| 0.350                       | -0.5478 | 0.350                    | -0.5360 | 0.350                      | -0.4966 |
| 0.400                       | -0.4950 | 0.400                    | -0.5325 | 0.400                      | -0.4729 |
| 0.450                       | -0.4409 | 0.450                    | -0.4765 | 0.450                      | -0.4506 |
| 0.500                       | -0.4337 | 0.500                    | -0.4687 | 0.500                      | -0.4115 |
| 0.550                       | -0.3738 | 0.550                    | -0.4467 | 0.550                      | -0.4039 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.4119 | 0.005 | 0.4544 | 0.005 | 0.3861 |
| 0.010         | 0.2054 | 0.010 | 0.2002 | 0.010 | 0.0759 |

Fight 25 Test point 8

Sweep, deg = 29.7 Mach = 0.75 hp, ft = 35400. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 192.4 R<sub>rho</sub> = 1780000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8021  | 0.000                    | 0.8482  | 0.000                      | 0.8400  |
| 0.005                       | 0.0074  | 0.005                    | 0.0332  | 0.005                      | 0.2961  |
| 0.010                       | -0.2332 | 0.010                    | -0.1866 | 0.010                      | 0.0089  |
| 0.020                       | -0.4457 | 0.020                    | -0.4155 | 0.020                      | -0.2860 |
| 0.040                       | -0.5904 | 0.040                    | -0.5388 | 0.040                      | -0.4343 |
| 0.060                       | -0.6483 | 0.060                    | -0.5410 | 0.060                      | -0.4928 |
| 0.080                       | -0.6303 | 0.080                    | -0.6057 | 0.080                      | -0.4965 |
| 0.100                       | -0.6514 | 0.100                    | -0.6509 | 0.100                      | -0.5035 |
| 0.125                       | -0.5757 | 0.125                    | -0.5700 | 0.125                      | -0.5020 |
| 0.150                       | -0.6378 | 0.150                    | -0.5990 | 0.150                      | -0.5355 |
| 0.175                       | -0.6181 | 0.175                    | -0.6340 | 0.175                      | -0.5689 |
| 0.200                       | -0.7016 | 0.200                    | -0.6701 | 0.200                      | -0.5553 |
| 0.250                       | -0.6991 | 0.250                    | -0.7085 | 0.250                      | -0.5834 |
| 0.300                       | -0.6556 | 0.300                    | -0.6784 | 0.300                      | -0.5572 |
| 0.350                       | -0.6171 | 0.350                    | -0.6047 | 0.350                      | -0.5506 |
| 0.400                       | -0.5468 | 0.400                    | -0.5948 | 0.400                      | -0.5221 |
| 0.450                       | -0.4783 | 0.450                    | -0.5260 | 0.450                      | -0.4878 |
| 0.500                       | -0.4586 | 0.500                    | -0.5010 | 0.500                      | -0.4375 |
| 0.550                       | -0.3878 | 0.550                    | -0.4714 | 0.550                      | -0.4183 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4039 | 0.005 | 0.4414 | 0.005 | 0.3823 |
| 0.010 | 0.1810 | 0.010 | 0.1758 | 0.010 | 0.0622 |

Flight 25 Test point 9

Sweep, deg = 29.7 Mach = 0.75 hp, ft = 34900. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 194.8 Rnpu = 1804000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8110  | 0.000                    | 0.8651  | 0.000                      | 0.8494  |
| 0.005                       | 0.1431  | 0.005                    | 0.1860  | 0.005                      | 0.4186  |
| 0.010                       | -0.0923 | 0.010                    | -0.0297 | 0.010                      | 0.1624  |
| 0.020                       | -0.3009 | 0.020                    | -0.2568 | 0.020                      | -0.1273 |
| 0.040                       | -0.4562 | 0.040                    | -0.3944 | 0.040                      | -0.2868 |
| 0.060                       | -0.5048 | 0.060                    | -0.4275 | 0.060                      | -0.3618 |
| 0.080                       | -0.5304 | 0.080                    | -0.4789 | 0.080                      | -0.3796 |
| 0.100                       | -0.5288 | 0.100                    | -0.4915 | 0.100                      | -0.4001 |
| 0.125                       | -0.4951 | 0.125                    | -0.4789 | 0.125                      | -0.4064 |
| 0.150                       | -0.5613 | 0.150                    | -0.5176 | 0.150                      | -0.4358 |
| 0.175                       | -0.5548 | 0.175                    | -0.5500 | 0.175                      | -0.4740 |
| 0.200                       | -0.6133 | 0.200                    | -0.5620 | 0.200                      | -0.4660 |
| 0.250                       | -0.6074 | 0.250                    | -0.6148 | 0.250                      | -0.5068 |
| 0.300                       | -0.5933 | 0.300                    | -0.5933 | 0.300                      | -0.4913 |
| 0.350                       | -0.5596 | 0.350                    | -0.5436 | 0.350                      | -0.5007 |
| 0.400                       | -0.5095 | 0.400                    | -0.5498 | 0.400                      | -0.4805 |
| 0.450                       | -0.4461 | 0.450                    | -0.4879 | 0.450                      | -0.4556 |
| 0.500                       | -0.4310 | 0.500                    | -0.4795 | 0.500                      | -0.4123 |
| 0.550                       | -0.3746 | 0.550                    | -0.4531 | 0.550                      | -0.4007 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.2877 | 0.005 | 0.3172 | 0.005 | 0.2460  |
| 0.010         | 0.0591 | 0.010 | 0.0324 | 0.010 | -0.1045 |

Fight 25 Test point 10

Sweep, deg = 25.3 Mach = 0.75 hp, ft = 34500. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 199.8 Rnpu = 1839000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8960  | 0.000                    | 0.9502  | 0.000                      | 0.9296  |
| 0.005                       | 0.2409  | 0.005                    | 0.2939  | 0.005                      | 0.5240  |
| 0.010                       | -0.0090 | 0.010                    | 0.0645  | 0.010                      | 0.2566  |
| 0.020                       | -0.2454 | 0.020                    | -0.1904 | 0.020                      | -0.0557 |
| 0.040                       | -0.4259 | 0.040                    | -0.3579 | 0.040                      | -0.2391 |
| 0.060                       | -0.4957 | 0.060                    | -0.4093 | 0.060                      | -0.3294 |
| 0.080                       | -0.5311 | 0.080                    | -0.4741 | 0.080                      | -0.3657 |
| 0.100                       | -0.5463 | 0.100                    | -0.4928 | 0.100                      | -0.3887 |
| 0.125                       | -0.5190 | 0.125                    | -0.4941 | 0.125                      | -0.4085 |
| 0.150                       | -0.6009 | 0.150                    | -0.5324 | 0.150                      | -0.4519 |
| 0.175                       | -0.5895 | 0.175                    | -0.5753 | 0.175                      | -0.4879 |
| 0.200                       | -0.6665 | 0.200                    | -0.6120 | 0.200                      | -0.4928 |
| 0.250                       | -0.6630 | 0.250                    | -0.6812 | 0.250                      | -0.5487 |
| 0.300                       | -0.6591 | 0.300                    | -0.6655 | 0.300                      | -0.5423 |
| 0.350                       | -0.6172 | 0.350                    | -0.6144 | 0.350                      | -0.5540 |
| 0.400                       | -0.5593 | 0.400                    | -0.6146 | 0.400                      | -0.5306 |
| 0.450                       | -0.4914 | 0.450                    | -0.5280 | 0.450                      | -0.4957 |
| 0.500                       | -0.4709 | 0.500                    | -0.5188 | 0.500                      | -0.4459 |
| 0.550                       | -0.4041 | 0.550                    | -0.4910 | 0.550                      | -0.4305 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2784 | 0.005 | 0.3040  | 0.005 | 0.2167  |
| 0.010 | 0.0215 | 0.010 | -0.0211 | 0.010 | -0.1720 |

Flight 25 Test point 11

Sweep, deg = 25.2 Mach = 0.75 hp, ft = 34000. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 204.7 Rnpu = 1879000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8827  | 0.000                    | 0.9319  | 0.000                      | 0.9265  |
| 0.005                       | 0.0634  | 0.005                    | 0.1144  | 0.005                      | 0.3797  |
| 0.010                       | -0.1902 | 0.010                    | -0.1330 | 0.010                      | 0.0842  |
| 0.020                       | -0.4285 | 0.020                    | -0.3812 | 0.020                      | -0.2470 |
| 0.040                       | -0.6010 | 0.040                    | -0.5304 | 0.040                      | -0.4081 |
| 0.060                       | -0.6631 | 0.060                    | -0.5474 | 0.060                      | -0.4955 |
| 0.080                       | -0.6593 | 0.080                    | -0.6037 | 0.080                      | -0.5059 |
| 0.100                       | -0.6797 | 0.100                    | -0.7065 | 0.100                      | -0.5199 |
| 0.125                       | -0.6156 | 0.125                    | -0.6052 | 0.125                      | -0.5208 |
| 0.150                       | -0.6890 | 0.150                    | -0.6419 | 0.150                      | -0.5629 |
| 0.175                       | -0.6891 | 0.175                    | -0.6835 | 0.175                      | -0.6118 |
| 0.200                       | -0.7484 | 0.200                    | -0.7094 | 0.200                      | -0.5879 |
| 0.250                       | -0.7989 | 0.250                    | -0.8484 | 0.250                      | -0.6821 |
| 0.300                       | -0.7215 | 0.300                    | -0.7817 | 0.300                      | -0.6211 |
| 0.350                       | -0.6838 | 0.350                    | -0.6790 | 0.350                      | -0.6176 |
| 0.400                       | -0.5939 | 0.400                    | -0.6516 | 0.400                      | -0.5726 |
| 0.450                       | -0.5202 | 0.450                    | -0.5656 | 0.450                      | -0.5333 |
| 0.500                       | -0.4940 | 0.500                    | -0.5439 | 0.500                      | -0.4778 |
| 0.550                       | -0.4210 | 0.550                    | -0.5121 | 0.550                      | -0.4472 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4265 | 0.005 | 0.4586 | 0.005 | 0.3846 |
| 0.010 | 0.1914 | 0.010 | 0.1627 | 0.010 | 0.0328 |



Flight 25 Test point 12

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 34700. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 196.5 Rnpu = 1820000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9760  | 0.000                    | 1.0208  | 0.000                      | 1.0044  |
| 0.005                       | 0.3149  | 0.005                    | 0.3717  | 0.005                      | 0.6123  |
| 0.010                       | 0.0452  | 0.010                    | 0.1229  | 0.010                      | 0.3343  |
| 0.020                       | -0.2128 | 0.020                    | -0.1483 | 0.020                      | -0.0011 |
| 0.040                       | -0.4210 | 0.040                    | -0.3341 | 0.040                      | -0.2016 |
| 0.060                       | -0.4999 | 0.060                    | -0.3902 | 0.060                      | -0.3140 |
| 0.080                       | -0.5382 | 0.080                    | -0.4561 | 0.080                      | -0.3506 |
| 0.100                       | -0.5974 | 0.100                    | -0.4975 | 0.100                      | -0.3883 |
| 0.125                       | -0.5441 | 0.125                    | -0.5098 | 0.125                      | -0.4110 |
| 0.150                       | -0.6406 | 0.150                    | -0.5498 | 0.150                      | -0.4537 |
| 0.175                       | -0.6293 | 0.175                    | -0.5986 | 0.175                      | -0.4936 |
| 0.200                       | -0.7080 | 0.200                    | -0.6361 | 0.200                      | -0.5102 |
| 0.250                       | -0.7352 | 0.250                    | -0.7198 | 0.250                      | -0.5845 |
| 0.300                       | -0.7328 | 0.300                    | -0.7609 | 0.300                      | -0.5857 |
| 0.350                       | -0.6749 | 0.350                    | -0.6836 | 0.350                      | -0.6063 |
| 0.400                       | -0.5951 | 0.400                    | -0.6736 | 0.400                      | -0.5642 |
| 0.450                       | -0.5133 | 0.450                    | -0.5596 | 0.450                      | -0.5367 |
| 0.500                       | -0.4923 | 0.500                    | -0.5552 | 0.500                      | -0.4752 |
| 0.550                       | -0.4265 | 0.550                    | -0.5161 | 0.550                      | -0.4301 |

| Lower surface |        |       |         |       |         |
|---------------|--------|-------|---------|-------|---------|
| 0.005         | 0.2969 | 0.005 | 0.2990  | 0.005 | 0.2137  |
| 0.010         | 0.0144 | 0.010 | -0.0534 | 0.010 | -0.2146 |

Flight 25 Test point 13

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 34600. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 198.0 Rnpu = 1831000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9708  | 0.000                    | 1.0141  | 0.000                      | 1.0077  |
| 0.005                       | 0.1217  | 0.005                    | 0.1789  | 0.005                      | 0.4601  |
| 0.010                       | -0.1524 | 0.010                    | -0.0794 | 0.010                      | 0.1481  |
| 0.020                       | -0.4092 | 0.020                    | -0.3466 | 0.020                      | -0.2013 |
| 0.040                       | -0.6078 | 0.040                    | -0.5217 | 0.040                      | -0.3888 |
| 0.060                       | -0.6685 | 0.060                    | -0.5569 | 0.060                      | -0.4861 |
| 0.080                       | -0.7484 | 0.080                    | -0.5990 | 0.080                      | -0.5114 |
| 0.100                       | -0.6920 | 0.100                    | -0.6945 | 0.100                      | -0.5251 |
| 0.125                       | -0.6994 | 0.125                    | -0.6387 | 0.125                      | -0.5331 |
| 0.150                       | -0.7367 | 0.150                    | -0.6649 | 0.150                      | -0.5751 |
| 0.175                       | -0.7522 | 0.175                    | -0.7326 | 0.175                      | -0.6278 |
| 0.200                       | -0.8471 | 0.200                    | -0.7537 | 0.200                      | -0.6355 |
| 0.250                       | -0.9139 | 0.250                    | -0.8644 | 0.250                      | -0.7089 |
| 0.300                       | -0.8993 | 0.300                    | -0.9059 | 0.300                      | -0.7313 |
| 0.350                       | -0.7415 | 0.350                    | -0.8859 | 0.350                      | -0.6747 |
| 0.400                       | -0.6063 | 0.400                    | -0.6229 | 0.400                      | -0.6171 |
| 0.450                       | -0.5422 | 0.450                    | -0.5644 | 0.450                      | -0.5696 |
| 0.500                       | -0.5125 | 0.500                    | -0.5741 | 0.500                      | -0.5035 |
| 0.550                       | -0.4382 | 0.550                    | -0.5352 | 0.550                      | -0.4456 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4645 | 0.005 | 0.4814 | 0.005 | 0.4028 |
| 0.010 | 0.2053 | 0.010 | 0.1647 | 0.010 | 0.0202 |

Fight 25 Test point 14

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 223.6 Rnpu = 1950000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9943  | 0.000                    | 1.0359  | 0.000                      | 1.0201  |
| 0.005                       | 0.2239  | 0.005                    | 0.2838  | 0.005                      | 0.5252  |
| 0.010                       | -0.0479 | 0.010                    | 0.0327  | 0.010                      | 0.2375  |
| 0.020                       | -0.2972 | 0.020                    | -0.2342 | 0.020                      | -0.1151 |
| 0.040                       | -0.5276 | 0.040                    | -0.4327 | 0.040                      | -0.3147 |
| 0.060                       | -0.5470 | 0.060                    | -0.4660 | 0.060                      | -0.4283 |
| 0.080                       | -0.6331 | 0.080                    | -0.4844 | 0.080                      | -0.4635 |
| 0.100                       | -0.6995 | 0.100                    | -0.5810 | 0.100                      | -0.4978 |
| 0.125                       | -0.6044 | 0.125                    | -0.6816 | 0.125                      | -0.4884 |
| 0.150                       | -0.7192 | 0.150                    | -0.6907 | 0.150                      | -0.5046 |
| 0.175                       | -0.7288 | 0.175                    | -0.6698 | 0.175                      | -0.5525 |
| 0.200                       | -0.8132 | 0.200                    | -0.6917 | 0.200                      | -0.6134 |
| 0.250                       | -0.8969 | 0.250                    | -0.7967 | 0.250                      | -0.7568 |
| 0.300                       | -0.9744 | 0.300                    | -0.8850 | 0.300                      | -0.7714 |
| 0.350                       | -0.9729 | 0.350                    | -0.9259 | 0.350                      | -0.8891 |
| 0.400                       | -0.9735 | 0.400                    | -1.0095 | 0.400                      | -0.8748 |
| 0.450                       | -0.9694 | 0.450                    | -1.0343 | 0.450                      | -0.9403 |
| 0.500                       | -1.0747 | 0.500                    | -1.0697 | 0.500                      | -0.9788 |
| 0.550                       | -0.4657 | 0.550                    | -0.6132 | 0.550                      | -0.8493 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.4627 | 0.005 | 0.4685 | 0.005 | 0.4027 |
| 0.010         | 0.2032 | 0.010 | 0.1467 | 0.010 | 0.0219 |

Fight 25 Test point 15

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 34800. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 227.2 Rnpu = 1969000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0485  | 0.000                    | 1.1039  | 0.000                      | 1.0882  |
| 0.005                       | 0.2422  | 0.005                    | 0.3240  | 0.005                      | 0.5753  |
| 0.010                       | -0.0342 | 0.010                    | 0.0604  | 0.010                      | 0.2788  |
| 0.020                       | -0.2957 | 0.020                    | -0.2152 | 0.020                      | -0.0835 |
| 0.040                       | -0.5472 | 0.040                    | -0.4128 | 0.040                      | -0.2847 |
| 0.060                       | -0.5712 | 0.060                    | -0.4651 | 0.060                      | -0.4054 |
| 0.080                       | -0.6321 | 0.080                    | -0.4861 | 0.080                      | -0.4473 |
| 0.100                       | -0.7482 | 0.100                    | -0.5544 | 0.100                      | -0.4731 |
| 0.125                       | -0.6415 | 0.125                    | -0.6722 | 0.125                      | -0.4828 |
| 0.150                       | -0.7379 | 0.150                    | -0.6757 | 0.150                      | -0.4977 |
| 0.175                       | -0.7380 | 0.175                    | -0.6790 | 0.175                      | -0.5274 |
| 0.200                       | -0.8288 | 0.200                    | -0.6942 | 0.200                      | -0.5841 |
| 0.250                       | -0.9181 | 0.250                    | -0.7991 | 0.250                      | -0.7649 |
| 0.300                       | -1.0007 | 0.300                    | -0.8726 | 0.300                      | -0.7302 |
| 0.350                       | -1.0028 | 0.350                    | -0.9300 | 0.350                      | -0.8808 |
| 0.400                       | -1.0163 | 0.400                    | -1.0130 | 0.400                      | -0.8729 |
| 0.450                       | -0.9337 | 0.450                    | -1.0310 | 0.450                      | -0.9312 |
| 0.500                       | -0.5098 | 0.500                    | -1.0713 | 0.500                      | -0.9366 |
| 0.550                       | -0.4418 | 0.550                    | -0.7474 | 0.550                      | -0.8857 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5309 | 0.005 | 0.5227 | 0.005 | 0.4513 |
| 0.010 | 0.2677 | 0.010 | 0.1953 | 0.010 | 0.0543 |

Flight 25 Test point 16

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 35500. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 216.8 Rnpu = 1901000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9881  | 0.000                    | 1.0325  | 0.000                      | 1.0180  |
| 0.005                       | 0.3051  | 0.005                    | 0.3610  | 0.005                      | 0.5881  |
| 0.010                       | 0.0432  | 0.010                    | 0.1187  | 0.010                      | 0.3116  |
| 0.020                       | -0.2095 | 0.020                    | -0.1489 | 0.020                      | -0.0266 |
| 0.040                       | -0.4234 | 0.040                    | -0.3427 | 0.040                      | -0.2351 |
| 0.060                       | -0.5062 | 0.060                    | -0.3954 | 0.060                      | -0.3497 |
| 0.080                       | -0.6245 | 0.080                    | -0.4472 | 0.080                      | -0.3942 |
| 0.100                       | -0.5338 | 0.100                    | -0.5549 | 0.100                      | -0.4261 |
| 0.125                       | -0.5772 | 0.125                    | -0.5963 | 0.125                      | -0.4369 |
| 0.150                       | -0.6700 | 0.150                    | -0.5319 | 0.150                      | -0.4745 |
| 0.175                       | -0.6768 | 0.175                    | -0.6033 | 0.175                      | -0.5310 |
| 0.200                       | -0.7687 | 0.200                    | -0.6636 | 0.200                      | -0.5987 |
| 0.250                       | -0.8449 | 0.250                    | -0.7733 | 0.250                      | -0.6596 |
| 0.300                       | -0.9187 | 0.300                    | -0.8495 | 0.300                      | -0.7330 |
| 0.350                       | -0.9103 | 0.350                    | -0.8857 | 0.350                      | -0.8208 |
| 0.400                       | -0.9266 | 0.400                    | -0.9645 | 0.400                      | -0.8382 |
| 0.450                       | -0.9386 | 0.450                    | -0.9921 | 0.450                      | -0.9082 |
| 0.500                       | -1.0512 | 0.500                    | -1.0377 | 0.500                      | -0.9238 |
| 0.550                       | -0.4098 | 0.550                    | -0.7512 | 0.550                      | -0.8571 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3733 | 0.005 | 0.3872 | 0.005 | 0.3153  |
| 0.010 | 0.1015 | 0.010 | 0.0431 | 0.010 | -0.0946 |

Flight 25 Test point 17

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 35700. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 214.8 Rnpu = 1887000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9847  | 0.000                    | 1.0302  | 0.000                      | 1.0183  |
| 0.005                       | 0.1729  | 0.005                    | 0.2255  | 0.005                      | 0.4807  |
| 0.010                       | -0.0998 | 0.010                    | -0.0282 | 0.010                      | 0.1849  |
| 0.020                       | -0.3492 | 0.020                    | -0.2889 | 0.020                      | -0.1715 |
| 0.040                       | -0.6048 | 0.040                    | -0.4832 | 0.040                      | -0.3633 |
| 0.060                       | -0.6063 | 0.060                    | -0.5206 | 0.060                      | -0.4735 |
| 0.080                       | -0.6868 | 0.080                    | -0.5214 | 0.080                      | -0.5153 |
| 0.100                       | -0.7590 | 0.100                    | -0.6041 | 0.100                      | -0.5375 |
| 0.125                       | -0.6753 | 0.125                    | -0.7231 | 0.125                      | -0.5619 |
| 0.150                       | -0.7727 | 0.150                    | -0.7427 | 0.150                      | -0.5573 |
| 0.175                       | -0.7628 | 0.175                    | -0.7255 | 0.175                      | -0.5648 |
| 0.200                       | -0.8395 | 0.200                    | -0.7336 | 0.200                      | -0.6360 |
| 0.250                       | -0.9336 | 0.250                    | -0.8290 | 0.250                      | -0.7951 |
| 0.300                       | -1.0099 | 0.300                    | -0.9138 | 0.300                      | -0.7915 |
| 0.350                       | -1.0065 | 0.350                    | -0.9499 | 0.350                      | -0.9291 |
| 0.400                       | -1.0078 | 0.400                    | -1.0319 | 0.400                      | -0.9164 |
| 0.450                       | -0.9886 | 0.450                    | -1.0562 | 0.450                      | -0.9621 |
| 0.500                       | -1.0809 | 0.500                    | -1.0841 | 0.500                      | -0.9929 |
| 0.550                       | -0.4585 | 0.550                    | -0.5493 | 0.550                      | -0.7763 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4939 | 0.005 | 0.5118 | 0.005 | 0.4489 |
| 0.010 | 0.2489 | 0.010 | 0.1964 | 0.010 | 0.0748 |

Flight 25 Test point 18

Sweep, deg = 25.0 Mach = 0.80 hp, ft = 34900. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 224.7 Rnpu = 1966000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9027  | 0.000                    | 0.9408  | 0.000                      | 0.9296  |
| 0.005                       | 0.0635  | 0.005                    | 0.1039  | 0.005                      | 0.3555  |
| 0.010                       | -0.1937 | 0.010                    | -0.1367 | 0.010                      | 0.0573  |
| 0.020                       | -0.4318 | 0.020                    | -0.3893 | 0.020                      | -0.2893 |
| 0.040                       | -0.6618 | 0.040                    | -0.5580 | 0.040                      | -0.4520 |
| 0.060                       | -0.6826 | 0.060                    | -0.6074 | 0.060                      | -0.6081 |
| 0.080                       | -0.7045 | 0.080                    | -0.5593 | 0.080                      | -0.5948 |
| 0.100                       | -0.7666 | 0.100                    | -0.6416 | 0.100                      | -0.6059 |
| 0.125                       | -0.6796 | 0.125                    | -0.7560 | 0.125                      | -0.6182 |
| 0.150                       | -0.7810 | 0.150                    | -0.7843 | 0.150                      | -0.6171 |
| 0.175                       | -0.7723 | 0.175                    | -0.7762 | 0.175                      | -0.5947 |
| 0.200                       | -0.8488 | 0.200                    | -0.7763 | 0.200                      | -0.6575 |
| 0.250                       | -0.9259 | 0.250                    | -0.8689 | 0.250                      | -0.7828 |
| 0.300                       | -0.9906 | 0.300                    | -0.9173 | 0.300                      | -0.8399 |
| 0.350                       | -0.9825 | 0.350                    | -0.9606 | 0.350                      | -0.9304 |
| 0.400                       | -0.9822 | 0.400                    | -1.0371 | 0.400                      | -0.9296 |
| 0.450                       | -0.9794 | 0.450                    | -1.0462 | 0.450                      | -0.9896 |
| 0.500                       | -1.0139 | 0.500                    | -1.1033 | 0.500                      | -0.9985 |
| 0.550                       | -0.4387 | 0.550                    | -0.5002 | 0.550                      | -0.4871 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5009 | 0.005 | 0.5147 | 0.005 | 0.4716 |
| 0.010 | 0.2701 | 0.010 | 0.2429 | 0.010 | 0.1414 |

Fight 25 Test point 19

Sweep, deg = 25.0 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 224.9 Rnpu = 1956000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9111  | 0.000                    | 0.9554  | 0.000                      | 0.9420  |
| 0.005                       | 0.2325  | 0.005                    | 0.2735  | 0.005                      | 0.4949  |
| 0.010                       | -0.0176 | 0.010                    | 0.0435  | 0.010                      | 0.2255  |
| 0.020                       | -0.2574 | 0.020                    | -0.2080 | 0.020                      | -0.1012 |
| 0.040                       | -0.4528 | 0.040                    | -0.3861 | 0.040                      | -0.2902 |
| 0.060                       | -0.5209 | 0.060                    | -0.4186 | 0.060                      | -0.3950 |
| 0.080                       | -0.6590 | 0.080                    | -0.4689 | 0.080                      | -0.4316 |
| 0.100                       | -0.5477 | 0.100                    | -0.5836 | 0.100                      | -0.4607 |
| 0.125                       | -0.5913 | 0.125                    | -0.6402 | 0.125                      | -0.4598 |
| 0.150                       | -0.6589 | 0.150                    | -0.5817 | 0.150                      | -0.4877 |
| 0.175                       | -0.6692 | 0.175                    | -0.5992 | 0.175                      | -0.5553 |
| 0.200                       | -0.7495 | 0.200                    | -0.6488 | 0.200                      | -0.6250 |
| 0.250                       | -0.8318 | 0.250                    | -0.7851 | 0.250                      | -0.6444 |
| 0.300                       | -0.8861 | 0.300                    | -0.8363 | 0.300                      | -0.7692 |
| 0.350                       | -0.8848 | 0.350                    | -0.8785 | 0.350                      | -0.8008 |
| 0.400                       | -0.8830 | 0.400                    | -0.9474 | 0.400                      | -0.8280 |
| 0.450                       | -0.7742 | 0.450                    | -0.9576 | 0.450                      | -0.9014 |
| 0.500                       | -0.7729 | 0.500                    | -1.0109 | 0.500                      | -0.9146 |
| 0.550                       | -0.3913 | 0.550                    | -0.5990 | 0.550                      | -0.5305 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3543 | 0.005 | 0.3671 | 0.005 | 0.3147  |
| 0.010 | 0.1007 | 0.010 | 0.0593 | 0.010 | -0.0615 |



Flight 25 Test point 20

Sweep, deg = 24.9 Mach = 0.81 hp, ft = 34900. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 227.1 Rnpu = 1969000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9027  | 0.000                    | 0.9426  | 0.000                      | 0.9354  |
| 0.005                       | 0.0977  | 0.005                    | 0.1397  | 0.005                      | 0.3854  |
| 0.010                       | -0.1535 | 0.010                    | -0.1041 | 0.010                      | 0.0913  |
| 0.020                       | -0.3930 | 0.020                    | -0.3527 | 0.020                      | -0.2482 |
| 0.040                       | -0.6334 | 0.040                    | -0.5308 | 0.040                      | -0.4231 |
| 0.060                       | -0.6137 | 0.060                    | -0.5754 | 0.060                      | -0.5539 |
| 0.080                       | -0.7000 | 0.080                    | -0.5298 | 0.080                      | -0.5664 |
| 0.100                       | -0.7316 | 0.100                    | -0.6249 | 0.100                      | -0.5657 |
| 0.125                       | -0.6458 | 0.125                    | -0.7449 | 0.125                      | -0.5941 |
| 0.150                       | -0.7554 | 0.150                    | -0.7533 | 0.150                      | -0.5828 |
| 0.175                       | -0.7528 | 0.175                    | -0.7458 | 0.175                      | -0.5731 |
| 0.200                       | -0.8321 | 0.200                    | -0.7480 | 0.200                      | -0.6466 |
| 0.250                       | -0.9049 | 0.250                    | -0.8338 | 0.250                      | -0.7560 |
| 0.300                       | -0.9694 | 0.300                    | -0.8973 | 0.300                      | -0.8201 |
| 0.350                       | -0.9583 | 0.350                    | -0.9368 | 0.350                      | -0.8998 |
| 0.400                       | -0.9576 | 0.400                    | -1.0208 | 0.400                      | -0.9093 |
| 0.450                       | -0.9642 | 0.450                    | -1.0302 | 0.450                      | -0.9684 |
| 0.500                       | -1.0426 | 0.500                    | -1.0877 | 0.500                      | -0.9915 |
| 0.550                       | -0.4518 | 0.550                    | -0.5108 | 0.550                      | -0.5047 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4779 | 0.005 | 0.4943 | 0.005 | 0.4443 |
| 0.010 | 0.2408 | 0.010 | 0.2098 | 0.010 | 0.1046 |

Flight 25 Test point 21

Sweep, deg = 30.2 Mach = 0.81 hp, ft = 35000. Angle of attack, deg = 2.2  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 226.5 Rnpu = 1965000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7899  | 0.000                    | 0.8185  | 0.000                      | 0.8123  |
| 0.005                       | -0.0778 | 0.005                    | -0.0645 | 0.005                      | 0.1857  |
| 0.010                       | -0.3188 | 0.010                    | -0.2965 | 0.010                      | -0.1069 |
| 0.020                       | -0.5392 | 0.020                    | -0.5176 | 0.020                      | -0.4399 |
| 0.040                       | -0.7009 | 0.040                    | -0.6743 | 0.040                      | -0.5756 |
| 0.060                       | -0.7578 | 0.060                    | -0.7236 | 0.060                      | -0.7038 |
| 0.080                       | -0.7369 | 0.080                    | -0.6940 | 0.080                      | -0.7006 |
| 0.100                       | -0.7663 | 0.100                    | -0.6457 | 0.100                      | -0.7153 |
| 0.125                       | -0.6879 | 0.125                    | -0.7837 | 0.125                      | -0.6550 |
| 0.150                       | -0.7808 | 0.150                    | -0.8089 | 0.150                      | -0.6461 |
| 0.175                       | -0.7789 | 0.175                    | -0.8079 | 0.175                      | -0.6609 |
| 0.200                       | -0.8482 | 0.200                    | -0.8056 | 0.200                      | -0.6984 |
| 0.250                       | -0.8983 | 0.250                    | -0.8691 | 0.250                      | -0.7593 |
| 0.300                       | -0.9711 | 0.300                    | -0.9278 | 0.300                      | -0.8709 |
| 0.350                       | -0.9382 | 0.350                    | -0.9524 | 0.350                      | -0.9116 |
| 0.400                       | -0.8002 | 0.400                    | -1.0035 | 0.400                      | -0.9141 |
| 0.450                       | -0.7351 | 0.450                    | -1.0173 | 0.450                      | -0.9750 |
| 0.500                       | -0.5163 | 0.500                    | -0.8918 | 0.500                      | -0.8049 |
| 0.550                       | -0.3885 | 0.550                    | -0.4282 | 0.550                      | -0.3595 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5007 | 0.005 | 0.5350 | 0.105 | 0.4988 |
| 0.010 | 0.2999 | 0.010 | 0.2945 | 0.010 | 0.2236 |

Fight 25 Test point 22

Sweep, deg = 30.2 Mach = 0.80 hp, ft = 35100. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 222.4 Rnpu = 1939000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8164  | 0.000                    | 0.8573  | 0.000                      | 0.8505  |
| 0.005                       | 0.1193  | 0.005                    | 0.1495  | 0.005                      | 0.3718  |
| 0.010                       | -0.1129 | 0.010                    | -0.0689 | 0.010                      | 0.1054  |
| 0.020                       | -0.3337 | 0.020                    | -0.3054 | 0.020                      | -0.2025 |
| 0.040                       | -0.4942 | 0.040                    | -0.4545 | 0.040                      | -0.3644 |
| 0.060                       | -0.5598 | 0.060                    | -0.4588 | 0.060                      | -0.4503 |
| 0.080                       | -0.6997 | 0.080                    | -0.5066 | 0.080                      | -0.4740 |
| 0.100                       | -0.4984 | 0.100                    | -0.6318 | 0.100                      | -0.5076 |
| 0.125                       | -0.6032 | 0.125                    | -0.6559 | 0.125                      | -0.4695 |
| 0.150                       | -0.6539 | 0.150                    | -0.6025 | 0.150                      | -0.5107 |
| 0.175                       | -0.6732 | 0.175                    | -0.6133 | 0.175                      | -0.5978 |
| 0.200                       | -0.7358 | 0.200                    | -0.6397 | 0.200                      | -0.6713 |
| 0.250                       | -0.7669 | 0.250                    | -0.7635 | 0.250                      | -0.6355 |
| 0.300                       | -0.7220 | 0.300                    | -0.7990 | 0.300                      | -0.7344 |
| 0.350                       | -0.7421 | 0.350                    | -0.8289 | 0.350                      | -0.7592 |
| 0.400                       | -0.7245 | 0.400                    | -0.8449 | 0.400                      | -0.7834 |
| 0.450                       | -0.6637 | 0.450                    | -0.6902 | 0.450                      | -0.4065 |
| 0.500                       | -0.4621 | 0.500                    | -0.4461 | 0.500                      | -0.3955 |
| 0.550                       | -0.3905 | 0.550                    | -0.4465 | 0.550                      | -0.4050 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.3514 | 0.005 | 0.3800 | 0.005 | 0.3295 |
| 0.010         | 0.1201 | 0.010 | 0.1018 | 0.010 | 0.0047 |

Fight 25 Test point 23

Sweep, deg = 30.2 Mach = 0.81 hp, ft = 34600. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 229.9 Rnpu = 1992000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8095  | 0.000                    | 0.8372  | 0.000                      | 0.8310  |
| 0.005                       | 0.0171  | 0.005                    | 0.0346  | 0.005                      | 0.2715  |
| 0.010                       | -0.2218 | 0.010                    | -0.1924 | 0.010                      | -0.0090 |
| 0.020                       | -0.4428 | 0.020                    | -0.4183 | 0.020                      | -0.3260 |
| 0.040                       | -0.6616 | 0.040                    | -0.5715 | 0.040                      | -0.4738 |
| 0.060                       | -0.5787 | 0.060                    | -0.5972 | 0.060                      | -0.6018 |
| 0.080                       | -0.7362 | 0.080                    | -0.5282 | 0.080                      | -0.5934 |
| 0.100                       | -0.7097 | 0.100                    | -0.6591 | 0.100                      | -0.5605 |
| 0.125                       | -0.6428 | 0.125                    | -0.7470 | 0.125                      | -0.6128 |
| 0.150                       | -0.7149 | 0.150                    | -0.7074 | 0.150                      | -0.5740 |
| 0.175                       | -0.7242 | 0.175                    | -0.7233 | 0.175                      | -0.6030 |
| 0.200                       | -0.7880 | 0.200                    | -0.7367 | 0.200                      | -0.6867 |
| 0.250                       | -0.8568 | 0.250                    | -0.8254 | 0.250                      | -0.6993 |
| 0.300                       | -0.9011 | 0.300                    | -0.8668 | 0.300                      | -0.8344 |
| 0.350                       | -0.7202 | 0.350                    | -0.8944 | 0.350                      | -0.8458 |
| 0.400                       | -0.7421 | 0.400                    | -0.9607 | 0.400                      | -0.8503 |
| 0.450                       | -0.7505 | 0.450                    | -0.9570 | 0.450                      | -0.9209 |
| 0.500                       | -0.4800 | 0.500                    | -0.5060 | 0.500                      | -0.3888 |
| 0.550                       | -0.3940 | 0.550                    | -0.4024 | 0.550                      | -0.3448 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4327 | 0.005 | 0.4634 | 0.005 | 0.4252 |
| 0.010 | 0.2224 | 0.010 | 0.2092 | 0.010 | 0.1247 |

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Flight 26 Test point 1

Sweep, deg = 20.1 Mach = 0.71 hp, ft = 34900. Angle of attack, deg = 3.7  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 173.7 Rnpu = 1708000.

| Upper surface               |         |                          |       |                            |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8043  | 0.000                    | ***** | 0.000                      | 0.8699  |
| 0.005                       | -0.5225 | 0.005                    | ***** | 0.005                      | -0.0872 |
| 0.010                       | -0.8148 | 0.010                    | ***** | 0.010                      | -0.4714 |
| 0.020                       | -1.0646 | 0.020                    | ***** | 0.020                      | -0.9104 |
| 0.040                       | -1.2394 | 0.040                    | ***** | 0.040                      | -1.0069 |
| 0.060                       | -1.3124 | 0.060                    | ***** | 0.060                      | -1.0503 |
| 0.080                       | -1.2608 | 0.080                    | ***** | 0.080                      | -1.1448 |
| 0.100                       | -1.2190 | 0.100                    | ***** | 0.100                      | -1.0442 |
| 0.125                       | -1.0732 | 0.125                    | ***** | 0.125                      | -0.9108 |
| 0.150                       | -1.1964 | 0.150                    | ***** | 0.150                      | -0.8346 |
| 0.175                       | -1.1634 | 0.175                    | ***** | 0.175                      | -0.9037 |
| 0.200                       | -1.2102 | 0.200                    | ***** | 0.200                      | -0.9010 |
| 0.250                       | -0.8608 | 0.250                    | ***** | 0.250                      | -0.8494 |
| 0.300                       | -0.8187 | 0.300                    | ***** | 0.300                      | -0.8098 |
| 0.350                       | -0.7751 | 0.350                    | ***** | 0.350                      | -0.7592 |
| 0.400                       | -0.6854 | 0.400                    | ***** | 0.400                      | -0.7010 |
| 0.450                       | -0.5996 | 0.450                    | ***** | 0.450                      | -0.6464 |
| 0.500                       | -0.5588 | 0.500                    | ***** | 0.500                      | -0.5626 |
| 0.550                       | -0.4631 | 0.550                    | ***** | 0.550                      | -0.5099 |

\*\*\* - no data

| Lower surface |        |       |       |       |        |
|---------------|--------|-------|-------|-------|--------|
| 0.005         | 0.7693 | 0.005 | ***** | 0.005 | 0.7714 |
| 0.010         | 0.5805 | 0.010 | ***** | 0.010 | 0.5033 |

Flight 26 Test point 2

Sweep, deg = 20.1 Mach = 0.71 hp, ft = 34800. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 176.7 Rnpu = 1729000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9530  | 0.000                    | ***** | 0.000                      | 0.9973  |
| 0.005                       | 0.2319  | 0.005                    | ***** | 0.005                      | 0.5651  |
| 0.010                       | -0.0432 | 0.010                    | ***** | 0.010                      | 0.2712  |
| 0.020                       | -0.2094 | 0.020                    | ***** | 0.020                      | -0.0610 |
| 0.040                       | -0.4788 | 0.040                    | ***** | 0.040                      | -0.2534 |
| 0.060                       | -0.5421 | 0.060                    | ***** | 0.060                      | -0.3557 |
| 0.080                       | -0.5769 | 0.080                    | ***** | 0.080                      | -0.3820 |
| 0.100                       | -0.5879 | 0.100                    | ***** | 0.100                      | -0.4088 |
| 0.125                       | -0.5508 | 0.125                    | ***** | 0.125                      | -0.4286 |
| 0.150                       | -0.6383 | 0.150                    | ***** | 0.150                      | -0.4638 |
| 0.175                       | -0.6348 | 0.175                    | ***** | 0.175                      | -0.4955 |
| 0.200                       | -0.6961 | 0.200                    | ***** | 0.200                      | -0.4978 |
| 0.250                       | -0.6966 | 0.250                    | ***** | 0.250                      | -0.5520 |
| 0.300                       | -0.6775 | 0.300                    | ***** | 0.300                      | -0.5475 |
| 0.350                       | -0.6332 | 0.350                    | ***** | 0.350                      | -0.5596 |
| 0.400                       | -0.5710 | 0.400                    | ***** | 0.400                      | -0.5435 |
| 0.450                       | -0.5121 | 0.450                    | ***** | 0.450                      | -0.5221 |
| 0.500                       | -0.4915 | 0.500                    | ***** | 0.500                      | -0.4695 |
| 0.550                       | -0.4226 | 0.550                    | ***** | 0.550                      | -0.4458 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |         |
|-------|--------|-------|-------|-------|---------|
| 0.005 | 0.3099 | 0.005 | ***** | 0.005 | 0.2300  |
| 0.010 | 0.0388 | 0.010 | ***** | 0.010 | -0.1901 |



Fight 26 Test point 3

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 33300. Angle of attack, deg = 3.9  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 211.1 Rnpu = 1952000.

| Upper surface               |         |                          |       |                            |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8382  | 0.000                    | ***** | 0.000                      | 0.8898  |
| 0.005                       | -0.3897 | 0.005                    | ***** | 0.005                      | -0.0139 |
| 0.010                       | -0.6711 | 0.010                    | ***** | 0.010                      | -0.3807 |
| 0.020                       | -0.9237 | 0.020                    | ***** | 0.020                      | -0.8145 |
| 0.040                       | -1.1032 | 0.040                    | ***** | 0.040                      | -0.9046 |
| 0.060                       | -1.1831 | 0.060                    | ***** | 0.060                      | -0.9893 |
| 0.080                       | -1.1673 | 0.080                    | ***** | 0.080                      | -1.0521 |
| 0.100                       | -1.1280 | 0.100                    | ***** | 0.100                      | -1.1161 |
| 0.125                       | -1.0638 | 0.125                    | ***** | 0.125                      | -1.0836 |
| 0.150                       | -1.1777 | 0.150                    | ***** | 0.150                      | -1.0679 |
| 0.175                       | -1.1493 | 0.175                    | ***** | 0.175                      | -1.0681 |
| 0.200                       | -1.2301 | 0.200                    | ***** | 0.200                      | -1.0569 |
| 0.250                       | -1.3022 | 0.250                    | ***** | 0.250                      | -1.1074 |
| 0.300                       | -1.3747 | 0.300                    | ***** | 0.300                      | -1.1141 |
| 0.350                       | -1.3155 | 0.350                    | ***** | 0.350                      | -1.1869 |
| 0.400                       | -1.2980 | 0.400                    | ***** | 0.400                      | -1.1822 |
| 0.450                       | -0.7041 | 0.450                    | ***** | 0.450                      | -1.1512 |
| 0.500                       | -0.5447 | 0.500                    | ***** | 0.500                      | -0.3868 |
| 0.550                       | -0.3745 | 0.550                    | ***** | 0.550                      | -0.4201 |

\*\*\* - no data

| Lower surface |        |       |       |       |        |
|---------------|--------|-------|-------|-------|--------|
| 0.005         | 0.7702 | 0.005 | ***** | 0.005 | 0.7690 |
| 0.010         | 0.5797 | 0.010 | ***** | 0.010 | 0.5048 |

Fight 26 Test point 4

Sweep, deg = 20.1 Mach = 0.70 hp, ft = 34800. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 172.5 Rnpu = 1705000.

| BL 200.8<br>Inboard station |         | Upper surface<br>BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|---|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                                       | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9377  | 0.000                                     | ***** | 0.000                      | 0.9934  |
| 0.005                       | 0.0567  | 0.005                                     | ***** | 0.005                      | 0.4298  |
| 0.010                       | -0.2123 | 0.010                                     | ***** | 0.010                      | 0.1230  |
| 0.020                       | -0.4601 | 0.020                                     | ***** | 0.020                      | -0.2200 |
| 0.040                       | -0.6326 | 0.040                                     | ***** | 0.040                      | -0.3940 |
| 0.060                       | -0.6709 | 0.060                                     | ***** | 0.060                      | -0.4733 |
| 0.080                       | -0.6952 | 0.080                                     | ***** | 0.080                      | -0.4889 |
| 0.100                       | -0.6966 | 0.100                                     | ***** | 0.100                      | -0.5103 |
| 0.125                       | -0.6229 | 0.125                                     | ***** | 0.125                      | -0.5152 |
| 0.150                       | -0.7220 | 0.150                                     | ***** | 0.150                      | -0.5467 |
| 0.175                       | -0.7026 | 0.175                                     | ***** | 0.175                      | -0.5620 |
| 0.200                       | -0.7673 | 0.200                                     | ***** | 0.200                      | -0.5613 |
| 0.250                       | -0.7473 | 0.250                                     | ***** | 0.250                      | -0.6074 |
| 0.300                       | -0.7227 | 0.300                                     | ***** | 0.300                      | -0.5946 |
| 0.350                       | -0.6663 | 0.350                                     | ***** | 0.350                      | -0.6003 |
| 0.400                       | -0.5952 | 0.400                                     | ***** | 0.400                      | -0.5757 |
| 0.450                       | -0.5279 | 0.450                                     | ***** | 0.450                      | -0.5429 |
| 0.500                       | -0.5062 | 0.500                                     | ***** | 0.500                      | -0.4841 |
| 0.550                       | -0.4328 | 0.550                                     | ***** | 0.550                      | -0.4521 |

\*\*\* - no data

|       |        | Lower surface |       |       |         |
|-------|--------|---------------|-------|-------|---------|
| x/c   | Cp     | x/c           | Cp    | x/c   | Cp      |
| 0.005 | 0.4468 | 0.005         | ***** | 0.005 | 0.3751  |
| 0.010 | 0.1934 | 0.010         | ***** | 0.010 | -0.0089 |

Fight 26 Test point 5

Sweep, deg = 25.4 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 4.2  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 171.1 Rnpu = 1693000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.6435  | 0.000                    | ***** | 0.000                      | 0.7062  |
| 0.005                       | -0.7564 | 0.005                    | ***** | 0.005                      | -0.3320 |
| 0.010                       | -1.0134 | 0.010                    | ***** | 0.010                      | -0.7205 |
| 0.020                       | -1.2533 | 0.020                    | ***** | 0.020                      | -1.1468 |
| 0.040                       | -1.3896 | 0.040                    | ***** | 0.040                      | -1.1930 |
| 0.060                       | -1.4519 | 0.060                    | ***** | 0.060                      | -1.2146 |
| 0.080                       | -1.3744 | 0.080                    | ***** | 0.080                      | -1.2710 |
| 0.100                       | -1.3373 | 0.100                    | ***** | 0.100                      | -1.1812 |
| 0.125                       | -1.1235 | 0.125                    | ***** | 0.125                      | -0.7609 |
| 0.150                       | -1.2296 | 0.150                    | ***** | 0.150                      | -0.8224 |
| 0.175                       | -0.8013 | 0.175                    | ***** | 0.175                      | -0.8833 |
| 0.200                       | -0.8779 | 0.200                    | ***** | 0.200                      | -0.8343 |
| 0.250                       | -0.9001 | 0.250                    | ***** | 0.250                      | -0.8223 |
| 0.300                       | -0.8507 | 0.300                    | ***** | 0.300                      | -0.7615 |
| 0.350                       | -0.7603 | 0.350                    | ***** | 0.350                      | -0.7215 |
| 0.400                       | -0.6616 | 0.400                    | ***** | 0.400                      | -0.6595 |
| 0.450                       | -0.5884 | 0.450                    | ***** | 0.450                      | -0.6027 |
| 0.500                       | -0.5403 | 0.500                    | ***** | 0.500                      | -0.5300 |
| 0.550                       | -0.4506 | 0.550                    | ***** | 0.550                      | -0.4840 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.7651 | 0.005 | ***** | 0.005 | 0.7888 |
| 0.010 | 0.6135 | 0.010 | ***** | 0.010 | 0.5812 |

Fight 26 Test point 6

Sweep, deg = 25.4 Mach = 0.70 hp, ft = 35100. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 170.9 Rnpu = 1688000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8705  | 0.000                    | ***** | 0.000                      | 0.9192  |
| 0.005                       | 0.1678  | 0.005                    | ***** | 0.005                      | 0.4776  |
| 0.010                       | -0.0830 | 0.010                    | ***** | 0.010                      | 0.2054  |
| 0.020                       | -0.3037 | 0.020                    | ***** | 0.020                      | -0.1100 |
| 0.040                       | -0.4649 | 0.040                    | ***** | 0.040                      | -0.2821 |
| 0.060                       | -0.5184 | 0.060                    | ***** | 0.060                      | -0.3546 |
| 0.080                       | -0.5495 | 0.080                    | ***** | 0.080                      | -0.3771 |
| 0.100                       | -0.5464 | 0.100                    | ***** | 0.100                      | -0.3991 |
| 0.125                       | -0.5076 | 0.125                    | ***** | 0.125                      | -0.4098 |
| 0.150                       | -0.5871 | 0.150                    | ***** | 0.150                      | -0.4364 |
| 0.175                       | -0.5796 | 0.175                    | ***** | 0.175                      | -0.4692 |
| 0.200                       | -0.6363 | 0.200                    | ***** | 0.200                      | -0.4596 |
| 0.250                       | -0.6295 | 0.250                    | ***** | 0.250                      | -0.5072 |
| 0.300                       | -0.6081 | 0.300                    | ***** | 0.300                      | -0.4973 |
| 0.350                       | -0.5783 | 0.350                    | ***** | 0.350                      | -0.5041 |
| 0.400                       | -0.5210 | 0.400                    | ***** | 0.400                      | -0.4938 |
| 0.450                       | -0.4754 | 0.450                    | ***** | 0.450                      | -0.4730 |
| 0.500                       | -0.4571 | 0.500                    | ***** | 0.500                      | -0.4343 |
| 0.550                       | -0.3989 | 0.550                    | ***** | 0.550                      | -0.4219 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |         |
|-------|--------|-------|-------|-------|---------|
| 0.005 | 0.2936 | 0.005 | ***** | 0.005 | 0.2374  |
| 0.010 | 0.0413 | 0.010 | ***** | 0.010 | -0.1466 |

Fight 26 Test point 7

Sweep, deg = 25.4 Mach = 0.70 hp, ft = 35700. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 164.7 Rnpu = 1640000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8628  | 0.000                    | ***** | 0.000                      | 0.9130  |
| 0.005                       | 0.0139  | 0.005                    | ***** | 0.005                      | 0.3523  |
| 0.010                       | -0.2443 | 0.010                    | ***** | 0.010                      | 0.0557  |
| 0.020                       | -0.4609 | 0.020                    | ***** | 0.020                      | -0.2664 |
| 0.040                       | -0.6065 | 0.040                    | ***** | 0.040                      | -0.4068 |
| 0.060                       | -0.6405 | 0.060                    | ***** | 0.060                      | -0.4726 |
| 0.080                       | -0.6548 | 0.080                    | ***** | 0.080                      | -0.4791 |
| 0.100                       | -0.6504 | 0.100                    | ***** | 0.100                      | -0.4923 |
| 0.125                       | -0.5822 | 0.125                    | ***** | 0.125                      | -0.4900 |
| 0.150                       | -0.6658 | 0.150                    | ***** | 0.150                      | -0.5176 |
| 0.175                       | -0.6424 | 0.175                    | ***** | 0.175                      | -0.5408 |
| 0.200                       | -0.7020 | 0.200                    | ***** | 0.200                      | -0.5306 |
| 0.250                       | -0.6860 | 0.250                    | ***** | 0.250                      | -0.5619 |
| 0.300                       | -0.6565 | 0.300                    | ***** | 0.300                      | -0.5454 |
| 0.350                       | -0.6087 | 0.350                    | ***** | 0.350                      | -0.5499 |
| 0.400                       | -0.5560 | 0.400                    | ***** | 0.400                      | -0.5258 |
| 0.450                       | -0.4988 | 0.450                    | ***** | 0.450                      | -0.4947 |
| 0.500                       | -0.4756 | 0.500                    | ***** | 0.500                      | -0.4522 |
| 0.550                       | -0.4054 | 0.550                    | ***** | 0.550                      | -0.4338 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.4132 | 0.005 | ***** | 0.005 | 0.3705 |
| 0.010 | 0.1828 | 0.010 | ***** | 0.010 | 0.0203 |

Fight 26 Test point 8

Sweep, deg = 30.4 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 4.3  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 173.0 Rnpu = 1705000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.5357  | 0.000                    | ***** | 0.000                      | 0.5828  |
| 0.005                       | -0.8340 | 0.005                    | ***** | 0.005                      | -0.4521 |
| 0.010                       | -1.0768 | 0.010                    | ***** | 0.010                      | -0.8218 |
| 0.020                       | -1.2735 | 0.020                    | ***** | 0.020                      | -1.2097 |
| 0.040                       | -1.3953 | 0.040                    | ***** | 0.040                      | -1.2704 |
| 0.060                       | -1.4336 | 0.060                    | ***** | 0.060                      | -1.2080 |
| 0.080                       | -1.3068 | 0.080                    | ***** | 0.080                      | -1.1193 |
| 0.100                       | -1.2188 | 0.100                    | ***** | 0.100                      | -0.8706 |
| 0.125                       | -0.7830 | 0.125                    | ***** | 0.125                      | -0.8302 |
| 0.150                       | -0.9159 | 0.150                    | ***** | 0.150                      | -0.8261 |
| 0.175                       | -0.8969 | 0.175                    | ***** | 0.175                      | -0.8325 |
| 0.200                       | -0.8844 | 0.200                    | ***** | 0.200                      | -0.7763 |
| 0.250                       | -0.8490 | 0.250                    | ***** | 0.250                      | -0.7548 |
| 0.300                       | -0.7868 | 0.300                    | ***** | 0.300                      | -0.6894 |
| 0.350                       | -0.7062 | 0.350                    | ***** | 0.350                      | -0.6557 |
| 0.400                       | -0.6194 | 0.400                    | ***** | 0.400                      | -0.6033 |
| 0.450                       | -0.5500 | 0.450                    | ***** | 0.450                      | -0.5499 |
| 0.500                       | -0.5173 | 0.500                    | ***** | 0.500                      | -0.4850 |
| 0.550                       | -0.4322 | 0.550                    | ***** | 0.550                      | -0.4516 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.7133 | 0.005 | ***** | 0.005 | 0.7412 |
| 0.010 | 0.5773 | 0.010 | ***** | 0.010 | 0.5655 |

Fight 26 Test point 9

Sweep, deg = 30.4 Mach = 0.71 hp, ft = 34800. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.5 QBAR, lb/ft<sup>2</sup> = 177.9 Rnpu = 1738000.

| Upper surface               |         |                          |       |                            |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.7815  | 0.000                    | ***** | 0.000                      | 0.8308  |
| 0.005                       | 0.1707  | 0.005                    | ***** | 0.005                      | 0.4441  |
| 0.010                       | -0.0482 | 0.010                    | ***** | 0.010                      | 0.1961  |
| 0.020                       | -0.2514 | 0.020                    | ***** | 0.020                      | -0.0880 |
| 0.040                       | -0.4012 | 0.040                    | ***** | 0.040                      | -0.2362 |
| 0.060                       | -0.4512 | 0.060                    | ***** | 0.060                      | -0.3096 |
| 0.080                       | -0.4761 | 0.080                    | ***** | 0.080                      | -0.3303 |
| 0.100                       | -0.4727 | 0.100                    | ***** | 0.100                      | -0.3535 |
| 0.125                       | -0.4534 | 0.125                    | ***** | 0.125                      | -0.3600 |
| 0.150                       | -0.5043 | 0.150                    | ***** | 0.150                      | -0.3957 |
| 0.175                       | -0.5085 | 0.175                    | ***** | 0.175                      | -0.4194 |
| 0.200                       | -0.5577 | 0.200                    | ***** | 0.200                      | -0.4125 |
| 0.250                       | -0.5600 | 0.250                    | ***** | 0.250                      | -0.4548 |
| 0.300                       | -0.5383 | 0.300                    | ***** | 0.300                      | -0.4442 |
| 0.350                       | -0.5172 | 0.350                    | ***** | 0.350                      | -0.4517 |
| 0.400                       | -0.4739 | 0.400                    | ***** | 0.400                      | -0.4359 |
| 0.450                       | -0.4256 | 0.450                    | ***** | 0.450                      | -0.4178 |
| 0.500                       | -0.4161 | 0.500                    | ***** | 0.500                      | -0.3886 |
| 0.550                       | -0.3610 | 0.550                    | ***** | 0.550                      | -0.3932 |

\*\*\* - no data

| Lower surface |         |       |       |       |         |
|---------------|---------|-------|-------|-------|---------|
| 0.005         | 0.2123  | 0.005 | ***** | 0.005 | 0.1664  |
| 0.010         | -0.0178 | 0.010 | ***** | 0.010 | -0.1893 |

Flight 26 Test point 10

Sweep, deg = 30.4 Mach = 0.71 hp, ft = 34800. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 176.6 Rnpu = 1731000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.7775  | 0.000                    | ***** | 0.000                      | 0.8226  |
| 0.005                       | -0.0268 | 0.005                    | ***** | 0.005                      | 0.2798  |
| 0.010                       | -0.2566 | 0.010                    | ***** | 0.010                      | 0.0004  |
| 0.020                       | -0.4571 | 0.020                    | ***** | 0.020                      | -0.2839 |
| 0.040                       | -0.5708 | 0.040                    | ***** | 0.040                      | -0.4208 |
| 0.060                       | -0.6000 | 0.060                    | ***** | 0.060                      | -0.4672 |
| 0.080                       | -0.6107 | 0.080                    | ***** | 0.080                      | -0.4697 |
| 0.100                       | -0.5956 | 0.100                    | ***** | 0.100                      | -0.4758 |
| 0.125                       | -0.5465 | 0.125                    | ***** | 0.125                      | -0.4686 |
| 0.150                       | -0.6098 | 0.150                    | ***** | 0.150                      | -0.4910 |
| 0.175                       | -0.5927 | 0.175                    | ***** | 0.175                      | -0.5059 |
| 0.200                       | -0.6401 | 0.200                    | ***** | 0.200                      | -0.4924 |
| 0.250                       | -0.6231 | 0.250                    | ***** | 0.250                      | -0.5206 |
| 0.300                       | -0.5948 | 0.300                    | ***** | 0.300                      | -0.5006 |
| 0.350                       | -0.5631 | 0.350                    | ***** | 0.350                      | -0.5042 |
| 0.400                       | -0.5065 | 0.400                    | ***** | 0.400                      | -0.4817 |
| 0.450                       | -0.4616 | 0.450                    | ***** | 0.450                      | -0.4579 |
| 0.500                       | -0.4444 | 0.500                    | ***** | 0.500                      | -0.4179 |
| 0.550                       | -0.3839 | 0.550                    | ***** | 0.550                      | -0.4127 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.3753 | 0.005 | ***** | 0.005 | 0.3502 |
| 0.010 | 0.1657 | 0.010 | ***** | 0.010 | 0.0408 |



Flight 26 Test point 11

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 5.0  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 173.4 Rnpu = 1711000.

| BL 200.8<br>Inboard station |         | Upper surface<br>BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|---|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                                       | Cp    | x/c                        | Cp      |
| 0.000                       | 0.3590  | 0.000                                     | ***** | 0.000                      | 0.3856  |
| 0.005                       | -1.0612 | 0.005                                     | ***** | 0.005                      | -0.6985 |
| 0.010                       | -1.2807 | 0.010                                     | ***** | 0.010                      | -1.0676 |
| 0.020                       | -1.4928 | 0.020                                     | ***** | 0.020                      | -1.4271 |
| 0.040                       | -1.5411 | 0.040                                     | ***** | 0.040                      | -1.5422 |
| 0.060                       | -1.5535 | 0.060                                     | ***** | 0.060                      | -1.4750 |
| 0.080                       | -1.4366 | 0.080                                     | ***** | 0.080                      | -1.3295 |
| 0.100                       | -0.9272 | 0.100                                     | ***** | 0.100                      | -0.8340 |
| 0.125                       | -0.8082 | 0.125                                     | ***** | 0.125                      | -0.8286 |
| 0.150                       | -0.9264 | 0.150                                     | ***** | 0.150                      | -0.8235 |
| 0.175                       | -0.8351 | 0.175                                     | ***** | 0.175                      | -0.8102 |
| 0.200                       | -0.8745 | 0.200                                     | ***** | 0.200                      | -0.7620 |
| 0.250                       | -0.8106 | 0.250                                     | ***** | 0.250                      | -0.7278 |
| 0.300                       | -0.7388 | 0.300                                     | ***** | 0.300                      | -0.6551 |
| 0.350                       | -0.6696 | 0.350                                     | ***** | 0.350                      | -0.6162 |
| 0.400                       | -0.5953 | 0.400                                     | ***** | 0.400                      | -0.5692 |
| 0.450                       | -0.5215 | 0.450                                     | ***** | 0.450                      | -0.5153 |
| 0.500                       | -0.4803 | 0.500                                     | ***** | 0.500                      | -0.4561 |
| 0.550                       | -0.4050 | 0.550                                     | ***** | 0.550                      | -0.4233 |

\*\*\* - no data

|       |        | Lower surface |       |       |        |
|-------|--------|---------------|-------|-------|--------|
| x/c   | Cp     | x/c           | Cp    | x/c   | Cp     |
| 0.005 | 0.6772 | 0.005         | ***** | 0.005 | 0.7219 |
| 0.010 | 0.5929 | 0.010         | ***** | 0.010 | 0.5984 |

Flight 26 Test point 12

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 35000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 171.2 Rnpu = 1696000.

| BL 200.8<br>Inboard station |         | Upper surface<br>BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|---|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                                       | Cp    | x/c                        | Cp      |
| 0.000                       | 0.7051  | 0.000                                     | ***** | 0.000                      | 0.7453  |
| 0.005                       | 0.1335  | 0.005                                     | ***** | 0.005                      | 0.3805  |
| 0.010                       | -0.0721 | 0.010                                     | ***** | 0.010                      | 0.1536  |
| 0.020                       | -0.2472 | 0.020                                     | ***** | 0.020                      | -0.0944 |
| 0.040                       | -0.3738 | 0.040                                     | ***** | 0.040                      | -0.2342 |
| 0.060                       | -0.4102 | 0.060                                     | ***** | 0.060                      | -0.2888 |
| 0.080                       | -0.4263 | 0.080                                     | ***** | 0.080                      | -0.3001 |
| 0.100                       | -0.4242 | 0.100                                     | ***** | 0.100                      | -0.3190 |
| 0.125                       | -0.4052 | 0.125                                     | ***** | 0.125                      | -0.3286 |
| 0.150                       | -0.4561 | 0.150                                     | ***** | 0.150                      | -0.3564 |
| 0.175                       | -0.4484 | 0.175                                     | ***** | 0.175                      | -0.3724 |
| 0.200                       | -0.4938 | 0.200                                     | ***** | 0.200                      | -0.3648 |
| 0.250                       | -0.4894 | 0.250                                     | ***** | 0.250                      | -0.3975 |
| 0.300                       | -0.4722 | 0.300                                     | ***** | 0.300                      | -0.3882 |
| 0.350                       | -0.4575 | 0.350                                     | ***** | 0.350                      | -0.3954 |
| 0.400                       | -0.4216 | 0.400                                     | ***** | 0.400                      | -0.3917 |
| 0.450                       | -0.3806 | 0.450                                     | ***** | 0.450                      | -0.3765 |
| 0.500                       | -0.3739 | 0.500                                     | ***** | 0.500                      | -0.3500 |
| 0.550                       | -0.3241 | 0.550                                     | ***** | 0.550                      | -0.3551 |

\*\*\* - no data

|       |         | Lower surface |       |       |         |
|-------|---------|---------------|-------|-------|---------|
| x/c   | Cp      | x/c           | Cp    | x/c   | Cp      |
| 0.005 | 0.1892  | 0.005         | ***** | 0.005 | 0.1530  |
| 0.010 | -0.0176 | 0.010         | ***** | 0.010 | -0.1704 |

Fight 26 Test point 13

Sweep, deg = 34.6 Mach = 0.70 hp, ft = 35000. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 172.1 Rnpu = 1701000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.6928  | 0.000                    | ***** | 0.000                      | 0.7378  |
| 0.005                       | -0.0820 | 0.005                    | ***** | 0.005                      | 0.1985  |
| 0.010                       | -0.2960 | 0.010                    | ***** | 0.010                      | -0.0616 |
| 0.020                       | -0.4614 | 0.020                    | ***** | 0.020                      | -0.3138 |
| 0.040                       | -0.5460 | 0.040                    | ***** | 0.040                      | -0.4141 |
| 0.060                       | -0.5681 | 0.060                    | ***** | 0.060                      | -0.4488 |
| 0.080                       | -0.5622 | 0.080                    | ***** | 0.080                      | -0.4453 |
| 0.100                       | -0.5495 | 0.100                    | ***** | 0.100                      | -0.4487 |
| 0.125                       | -0.4945 | 0.125                    | ***** | 0.125                      | -0.4349 |
| 0.150                       | -0.5495 | 0.150                    | ***** | 0.150                      | -0.4529 |
| 0.175                       | -0.5366 | 0.175                    | ***** | 0.175                      | -0.4650 |
| 0.200                       | -0.5815 | 0.200                    | ***** | 0.200                      | -0.4509 |
| 0.250                       | -0.5658 | 0.250                    | ***** | 0.250                      | -0.4769 |
| 0.300                       | -0.5300 | 0.300                    | ***** | 0.300                      | -0.4558 |
| 0.350                       | -0.5069 | 0.350                    | ***** | 0.350                      | -0.4569 |
| 0.400                       | -0.4696 | 0.400                    | ***** | 0.400                      | -0.4350 |
| 0.450                       | -0.4186 | 0.450                    | ***** | 0.450                      | -0.4112 |
| 0.500                       | -0.4033 | 0.500                    | ***** | 0.500                      | -0.3803 |
| 0.550                       | -0.3509 | 0.550                    | ***** | 0.550                      | -0.3817 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.3527 | 0.005 | ***** | 0.005 | 0.3470 |
| 0.010 | 0.1693 | 0.010 | ***** | 0.010 | 0.0722 |

Fight 26 Test point 14

Sweep, deg = 34.5 Mach = 0.76 hp, ft = 34900. Angle of attack, deg = 3.7  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 199.8 Rnpu = 1852000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.5555  | 0.000                    | ***** | 0.000                      | 0.5712  |
| 0.005                       | -0.5983 | 0.005                    | ***** | 0.005                      | -0.3162 |
| 0.010                       | -0.8151 | 0.010                    | ***** | 0.010                      | -0.6391 |
| 0.020                       | -1.0125 | 0.020                    | ***** | 0.020                      | -1.0122 |
| 0.040                       | -1.1287 | 0.040                    | ***** | 0.040                      | -1.0402 |
| 0.060                       | -1.1659 | 0.060                    | ***** | 0.060                      | -1.0506 |
| 0.080                       | -1.0378 | 0.080                    | ***** | 0.080                      | -1.1180 |
| 0.100                       | -1.0906 | 0.100                    | ***** | 0.100                      | -1.0780 |
| 0.125                       | -0.7871 | 0.125                    | ***** | 0.125                      | -0.8116 |
| 0.150                       | -0.9117 | 0.150                    | ***** | 0.150                      | -0.7700 |
| 0.175                       | -0.8441 | 0.175                    | ***** | 0.175                      | -0.8238 |
| 0.200                       | -0.8175 | 0.200                    | ***** | 0.200                      | -0.8009 |
| 0.250                       | -0.8535 | 0.250                    | ***** | 0.250                      | -0.6896 |
| 0.300                       | -0.7658 | 0.300                    | ***** | 0.300                      | -0.6777 |
| 0.350                       | -0.6858 | 0.350                    | ***** | 0.350                      | -0.6200 |
| 0.400                       | -0.5999 | 0.400                    | ***** | 0.400                      | -0.5637 |
| 0.450                       | -0.5246 | 0.450                    | ***** | 0.450                      | -0.5104 |
| 0.500                       | -0.4885 | 0.500                    | ***** | 0.500                      | -0.4505 |
| 0.550                       | -0.4073 | 0.550                    | ***** | 0.550                      | -0.4125 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.6112 | 0.005 | ***** | 0.005 | 0.6456 |
| 0.010 | 0.4729 | 0.010 | ***** | 0.010 | 0.4702 |

Fight 26 Test point 15

Sweep, deg = 34.5 Mach = 0.75 hp, ft = 34400. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 203.2 Rnpu = 1879000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.7170  | 0.000                    | ***** | 0.000                      | 0.7578  |
| 0.005                       | 0.1162  | 0.005                    | ***** | 0.005                      | 0.3605  |
| 0.010                       | -0.0939 | 0.010                    | ***** | 0.010                      | 0.1261  |
| 0.020                       | -0.2765 | 0.020                    | ***** | 0.020                      | -0.1373 |
| 0.040                       | -0.4075 | 0.040                    | ***** | 0.040                      | -0.2767 |
| 0.060                       | -0.4416 | 0.060                    | ***** | 0.060                      | -0.3481 |
| 0.080                       | -0.4770 | 0.080                    | ***** | 0.080                      | -0.3635 |
| 0.100                       | -0.4792 | 0.100                    | ***** | 0.100                      | -0.3735 |
| 0.125                       | -0.4518 | 0.125                    | ***** | 0.125                      | -0.3753 |
| 0.150                       | -0.5147 | 0.150                    | ***** | 0.150                      | -0.3996 |
| 0.175                       | -0.5019 | 0.175                    | ***** | 0.175                      | -0.4267 |
| 0.200                       | -0.5498 | 0.200                    | ***** | 0.200                      | -0.4229 |
| 0.250                       | -0.5474 | 0.250                    | ***** | 0.250                      | -0.4567 |
| 0.300                       | -0.5305 | 0.300                    | ***** | 0.300                      | -0.4467 |
| 0.350                       | -0.5109 | 0.350                    | ***** | 0.350                      | -0.4495 |
| 0.400                       | -0.4684 | 0.400                    | ***** | 0.400                      | -0.4338 |
| 0.450                       | -0.4205 | 0.450                    | ***** | 0.450                      | -0.4108 |
| 0.500                       | -0.4069 | 0.500                    | ***** | 0.500                      | -0.3799 |
| 0.550                       | -0.3492 | 0.550                    | ***** | 0.550                      | -0.3747 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |         |
|-------|--------|-------|-------|-------|---------|
| 0.005 | 0.2316 | 0.005 | ***** | 0.005 | 0.2024  |
| 0.010 | 0.0229 | 0.010 | ***** | 0.010 | -0.1086 |

Fight 26 Test point 16

Sweep, deg = 34.5 Mach = 0.75 hp, ft = 34500. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 201.3 Rnpu = 1869000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.7061  | 0.000                    | ***** | 0.000                      | 0.7391  |
| 0.005                       | -0.0304 | 0.005                    | ***** | 0.005                      | 0.2210  |
| 0.010                       | -0.2465 | 0.010                    | ***** | 0.010                      | -0.0325 |
| 0.020                       | -0.4260 | 0.020                    | ***** | 0.020                      | -0.3049 |
| 0.040                       | -0.5407 | 0.040                    | ***** | 0.040                      | -0.4230 |
| 0.060                       | -0.5582 | 0.060                    | ***** | 0.060                      | -0.4646 |
| 0.080                       | -0.5772 | 0.080                    | ***** | 0.080                      | -0.4699 |
| 0.100                       | -0.5705 | 0.100                    | ***** | 0.100                      | -0.4763 |
| 0.125                       | -0.5224 | 0.125                    | ***** | 0.125                      | -0.4726 |
| 0.150                       | -0.5909 | 0.150                    | ***** | 0.150                      | -0.4902 |
| 0.175                       | -0.5712 | 0.175                    | ***** | 0.175                      | -0.5087 |
| 0.200                       | -0.6169 | 0.200                    | ***** | 0.200                      | -0.4928 |
| 0.250                       | -0.6046 | 0.250                    | ***** | 0.250                      | -0.5246 |
| 0.300                       | -0.5814 | 0.300                    | ***** | 0.300                      | -0.5014 |
| 0.350                       | -0.5560 | 0.350                    | ***** | 0.350                      | -0.4967 |
| 0.400                       | -0.5006 | 0.400                    | ***** | 0.400                      | -0.4677 |
| 0.450                       | -0.4439 | 0.450                    | ***** | 0.450                      | -0.4450 |
| 0.500                       | -0.4332 | 0.500                    | ***** | 0.500                      | -0.4028 |
| 0.550                       | -0.3719 | 0.550                    | ***** | 0.550                      | -0.3956 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.3424 | 0.005 | ***** | 0.005 | 0.3376 |
| 0.010 | 0.1427 | 0.010 | ***** | 0.010 | 0.0484 |

Fight 26 Test point 17

Sweep, deg = 30.4 Mach = 0.75 hp, ft = 34900. Angle of attack, deg = 3.3  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 195.3 Rnpu = 1828000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.6810  | 0.000                    | ***** | 0.000                      | 0.7191  |
| 0.005                       | -0.4355 | 0.005                    | ***** | 0.005                      | -0.1159 |
| 0.010                       | -0.6786 | 0.010                    | ***** | 0.010                      | -0.4525 |
| 0.020                       | -0.8835 | 0.020                    | ***** | 0.020                      | -0.8297 |
| 0.040                       | -1.0176 | 0.040                    | ***** | 0.040                      | -0.8991 |
| 0.060                       | -1.0625 | 0.060                    | ***** | 0.060                      | -0.9649 |
| 0.080                       | -0.9413 | 0.080                    | ***** | 0.080                      | -0.9633 |
| 0.100                       | -1.0128 | 0.100                    | ***** | 0.100                      | -0.8715 |
| 0.125                       | -0.8046 | 0.125                    | ***** | 0.125                      | -0.7867 |
| 0.150                       | -0.8771 | 0.150                    | ***** | 0.150                      | -0.8014 |
| 0.175                       | -0.8833 | 0.175                    | ***** | 0.175                      | -0.8430 |
| 0.200                       | -0.9336 | 0.200                    | ***** | 0.200                      | -0.8307 |
| 0.250                       | -0.8739 | 0.250                    | ***** | 0.250                      | -0.7522 |
| 0.300                       | -0.7938 | 0.300                    | ***** | 0.300                      | -0.6795 |
| 0.350                       | -0.7395 | 0.350                    | ***** | 0.350                      | -0.6567 |
| 0.400                       | -0.6231 | 0.400                    | ***** | 0.400                      | -0.5976 |
| 0.450                       | -0.5398 | 0.450                    | ***** | 0.450                      | -0.5458 |
| 0.500                       | -0.5086 | 0.500                    | ***** | 0.500                      | -0.4801 |
| 0.550                       | -0.4215 | 0.550                    | ***** | 0.550                      | -0.4446 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.6199 | 0.005 | ***** | 0.005 | 0.6416 |
| 0.010 | 0.4498 | 0.010 | ***** | 0.010 | 0.4062 |

Flight 26 Test point 18

Sweep, deg = 30.4 Mach = 0.76 hp, ft = 34900. Angle of attack, deg = 3.6  
 Angle of sideslip, deg = -0.7 QBAR, lb/ft2 = 202.3 Rnpu = 1857000.

| BL 200.8<br>Inboard station |         | Upper surface<br>BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|---|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                                       | Cp    | x/c                        | Cp      |
| 0.000                       | 0.6882  | 0.000                                     | ***** | 0.000                      | 0.7165  |
| 0.005                       | -0.4339 | 0.005                                     | ***** | 0.005                      | -0.1292 |
| 0.010                       | -0.6906 | 0.010                                     | ***** | 0.010                      | -0.4677 |
| 0.020                       | -0.9021 | 0.020                                     | ***** | 0.020                      | -0.8711 |
| 0.040                       | -1.0502 | 0.040                                     | ***** | 0.040                      | -0.9285 |
| 0.060                       | -1.1073 | 0.060                                     | ***** | 0.060                      | -0.9834 |
| 0.080                       | -1.0465 | 0.080                                     | ***** | 0.080                      | -1.0723 |
| 0.100                       | -1.1076 | 0.100                                     | ***** | 0.100                      | -1.0580 |
| 0.125                       | -0.9293 | 0.125                                     | ***** | 0.125                      | -1.0185 |
| 0.150                       | -1.0565 | 0.150                                     | ***** | 0.150                      | -0.9930 |
| 0.175                       | -0.9818 | 0.175                                     | ***** | 0.175                      | -0.9580 |
| 0.200                       | -1.0537 | 0.200                                     | ***** | 0.200                      | -0.9261 |
| 0.250                       | -1.0745 | 0.250                                     | ***** | 0.250                      | -0.8941 |
| 0.300                       | -0.9342 | 0.300                                     | ***** | 0.300                      | -0.9134 |
| 0.350                       | -0.7880 | 0.350                                     | ***** | 0.350                      | -0.5330 |
| 0.400                       | -0.6512 | 0.400                                     | ***** | 0.400                      | -0.5500 |
| 0.450                       | -0.5471 | 0.450                                     | ***** | 0.450                      | -0.5439 |
| 0.500                       | -0.5084 | 0.500                                     | ***** | 0.500                      | -0.4827 |
| 0.550                       | -0.4286 | 0.550                                     | ***** | 0.550                      | -0.4430 |

\*\*\* - no data

|       |        | Lower surface |       |       |        |
|-------|--------|---------------|-------|-------|--------|
| x/c   | Cp     | x/c           | Cp    | x/c   | Cp     |
| 0.005 | 0.6426 | 0.005         | ***** | 0.005 | 0.6675 |
| 0.010 | 0.4749 | 0.010         | ***** | 0.010 | 0.4419 |



Fight 26 Test point 19

Sweep, deg = 30.4 Mach = 0.76 hp, ft = 35800. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 191.8 Rnpu = 1782000.

| Upper surface               |         |                          |       |                            |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.7998  | 0.000                    | ***** | 0.000                      | 0.8367  |
| 0.005                       | 0.1575  | 0.005                    | ***** | 0.005                      | 0.4101  |
| 0.010                       | -0.0738 | 0.010                    | ***** | 0.010                      | 0.1587  |
| 0.020                       | -0.2849 | 0.020                    | ***** | 0.020                      | -0.1306 |
| 0.040                       | -0.4373 | 0.040                    | ***** | 0.040                      | -0.2898 |
| 0.060                       | -0.4912 | 0.060                    | ***** | 0.060                      | -0.3703 |
| 0.080                       | -0.5212 | 0.080                    | ***** | 0.080                      | -0.3949 |
| 0.100                       | -0.5247 | 0.100                    | ***** | 0.100                      | -0.4087 |
| 0.125                       | -0.4981 | 0.125                    | ***** | 0.125                      | -0.4214 |
| 0.150                       | -0.5695 | 0.150                    | ***** | 0.150                      | -0.4531 |
| 0.175                       | -0.5641 | 0.175                    | ***** | 0.175                      | -0.4847 |
| 0.200                       | -0.6216 | 0.200                    | ***** | 0.200                      | -0.4782 |
| 0.250                       | -0.6178 | 0.250                    | ***** | 0.250                      | -0.5218 |
| 0.300                       | -0.6076 | 0.300                    | ***** | 0.300                      | -0.5111 |
| 0.350                       | -0.5765 | 0.350                    | ***** | 0.350                      | -0.5110 |
| 0.400                       | -0.5231 | 0.400                    | ***** | 0.400                      | -0.4876 |
| 0.450                       | -0.4723 | 0.450                    | ***** | 0.450                      | -0.4614 |
| 0.500                       | -0.4505 | 0.500                    | ***** | 0.500                      | -0.4251 |
| 0.550                       | -0.3908 | 0.550                    | ***** | 0.550                      | -0.4088 |

\*\*\* - no data

| Lower surface |        |       |       |       |         |
|---------------|--------|-------|-------|-------|---------|
| 0.005         | 0.2643 | 0.005 | ***** | 0.005 | 0.2332  |
| 0.010         | 0.0373 | 0.010 | ***** | 0.010 | -0.1193 |

Fight 26 Test point 20

Sweep, deg = 30.4 Mach = 0.76 hp, ft = 34900. Angle of attack, deg = 3.8  
 Angle of sideslip, deg = 0.7 QBAR, lb/ft<sup>2</sup> = 204.0 Rnpu = 1868000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.6453  | 0.000                    | ***** | 0.000                      | 0.6619  |
| 0.005                       | -0.5080 | 0.005                    | ***** | 0.005                      | -0.2141 |
| 0.010                       | -0.7549 | 0.010                    | ***** | 0.010                      | -0.5515 |
| 0.020                       | -0.9658 | 0.020                    | ***** | 0.020                      | -0.9459 |
| 0.040                       | -1.1105 | 0.040                    | ***** | 0.040                      | -1.0166 |
| 0.060                       | -1.1754 | 0.060                    | ***** | 0.060                      | -1.0531 |
| 0.080                       | -1.1225 | 0.080                    | ***** | 0.080                      | -1.0977 |
| 0.100                       | -1.1311 | 0.100                    | ***** | 0.100                      | -1.1220 |
| 0.125                       | -0.9757 | 0.125                    | ***** | 0.125                      | -1.0958 |
| 0.150                       | -1.0955 | 0.150                    | ***** | 0.150                      | -1.0763 |
| 0.175                       | -1.0440 | 0.175                    | ***** | 0.175                      | -1.0753 |
| 0.200                       | -1.0912 | 0.200                    | ***** | 0.200                      | -1.0594 |
| 0.250                       | -1.1246 | 0.250                    | ***** | 0.250                      | -1.0199 |
| 0.300                       | -0.9658 | 0.300                    | ***** | 0.300                      | -1.0275 |
| 0.350                       | -0.7614 | 0.350                    | ***** | 0.350                      | -0.5095 |
| 0.400                       | -0.6403 | 0.400                    | ***** | 0.400                      | -0.4803 |
| 0.450                       | -0.5396 | 0.450                    | ***** | 0.450                      | -0.5003 |
| 0.500                       | -0.5029 | 0.500                    | ***** | 0.500                      | -0.4607 |
| 0.550                       | -0.4261 | 0.550                    | ***** | 0.550                      | -0.4331 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.6548 | 0.005 | ***** | 0.005 | 0.6837 |
| 0.010 | 0.5037 | 0.010 | ***** | 0.010 | 0.4811 |

Fight 26 Test point 21

Sweep, deg = 30.4 Mach = 0.74 hp, ft = 36100. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 183.2 Rnpu = 1732000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.7803  | 0.000                    | ***** | 0.000                      | 0.8232  |
| 0.005                       | 0.0236  | 0.005                    | ***** | 0.005                      | 0.3103  |
| 0.010                       | -0.2094 | 0.010                    | ***** | 0.010                      | 0.0334  |
| 0.020                       | -0.4201 | 0.020                    | ***** | 0.020                      | -0.2618 |
| 0.040                       | -0.5515 | 0.040                    | ***** | 0.040                      | -0.4060 |
| 0.060                       | -0.5934 | 0.060                    | ***** | 0.060                      | -0.4640 |
| 0.080                       | -0.6070 | 0.080                    | ***** | 0.080                      | -0.4728 |
| 0.100                       | -0.6058 | 0.100                    | ***** | 0.100                      | -0.4792 |
| 0.125                       | -0.5502 | 0.125                    | ***** | 0.125                      | -0.4738 |
| 0.150                       | -0.6224 | 0.150                    | ***** | 0.150                      | -0.5025 |
| 0.175                       | -0.6093 | 0.175                    | ***** | 0.175                      | -0.5345 |
| 0.200                       | -0.6707 | 0.200                    | ***** | 0.200                      | -0.5233 |
| 0.250                       | -0.6468 | 0.250                    | ***** | 0.250                      | -0.5536 |
| 0.300                       | -0.6287 | 0.300                    | ***** | 0.300                      | -0.5385 |
| 0.350                       | -0.5938 | 0.350                    | ***** | 0.350                      | -0.5376 |
| 0.400                       | -0.5371 | 0.400                    | ***** | 0.400                      | -0.5045 |
| 0.450                       | -0.4773 | 0.450                    | ***** | 0.450                      | -0.4773 |
| 0.500                       | -0.4575 | 0.500                    | ***** | 0.500                      | -0.4313 |
| 0.550                       | -0.3958 | 0.550                    | ***** | 0.550                      | -0.4196 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.3613 | 0.005 | ***** | 0.005 | 0.3350 |
| 0.010 | 0.1445 | 0.010 | ***** | 0.010 | 0.0136 |

Fight 26 Test point 22

Sweep, deg = 30.4 Mach = 0.74 hp, ft = 35600. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 185.1 Rnpu = 1754000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.7865  | 0.000                    | ***** | 0.000                      | 0.8247  |
| 0.005                       | 0.0151  | 0.005                    | ***** | 0.005                      | 0.3109  |
| 0.010                       | -0.2187 | 0.010                    | ***** | 0.010                      | 0.0357  |
| 0.020                       | -0.4235 | 0.020                    | ***** | 0.020                      | -0.2578 |
| 0.040                       | -0.5569 | 0.040                    | ***** | 0.040                      | -0.4042 |
| 0.060                       | -0.5938 | 0.060                    | ***** | 0.060                      | -0.4587 |
| 0.080                       | -0.6106 | 0.080                    | ***** | 0.080                      | -0.4714 |
| 0.100                       | -0.6042 | 0.100                    | ***** | 0.100                      | -0.4812 |
| 0.125                       | -0.5567 | 0.125                    | ***** | 0.125                      | -0.4797 |
| 0.150                       | -0.6251 | 0.150                    | ***** | 0.150                      | -0.5000 |
| 0.175                       | -0.6088 | 0.175                    | ***** | 0.175                      | -0.5337 |
| 0.200                       | -0.6692 | 0.200                    | ***** | 0.200                      | -0.5201 |
| 0.250                       | -0.6493 | 0.250                    | ***** | 0.250                      | -0.5456 |
| 0.300                       | -0.6295 | 0.300                    | ***** | 0.300                      | -0.5310 |
| 0.350                       | -0.5890 | 0.350                    | ***** | 0.350                      | -0.5291 |
| 0.400                       | -0.5364 | 0.400                    | ***** | 0.400                      | -0.5022 |
| 0.450                       | -0.4766 | 0.450                    | ***** | 0.450                      | -0.4742 |
| 0.500                       | -0.4554 | 0.500                    | ***** | 0.500                      | -0.4338 |
| 0.550                       | -0.3947 | 0.550                    | ***** | 0.550                      | -0.4159 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.3643 | 0.005 | ***** | 0.005 | 0.3350 |
| 0.010 | 0.1460 | 0.010 | ***** | 0.010 | 0.0142 |

Fight 26 Test point 23

Sweep, deg = 30.4 Mach = 0.77 hp, ft = 34700. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 206.4 Rnpu = 1891000.

| Upper surface               |         |                          |       |                            |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| BL 200.8<br>inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8025  | 0.000                    | ***** | 0.000                      | 0.8428  |
| 0.005                       | 0.1731  | 0.005                    | ***** | 0.005                      | 0.4359  |
| 0.010                       | -0.0585 | 0.010                    | ***** | 0.010                      | 0.1779  |
| 0.020                       | -0.2736 | 0.020                    | ***** | 0.020                      | -0.1121 |
| 0.040                       | -0.4385 | 0.040                    | ***** | 0.040                      | -0.2788 |
| 0.060                       | -0.4866 | 0.060                    | ***** | 0.060                      | -0.3607 |
| 0.080                       | -0.5239 | 0.080                    | ***** | 0.080                      | -0.3862 |
| 0.100                       | -0.5297 | 0.100                    | ***** | 0.100                      | -0.4108 |
| 0.125                       | -0.5098 | 0.125                    | ***** | 0.125                      | -0.4195 |
| 0.150                       | -0.5766 | 0.150                    | ***** | 0.150                      | -0.4595 |
| 0.175                       | -0.5726 | 0.175                    | ***** | 0.175                      | -0.4909 |
| 0.200                       | -0.6277 | 0.200                    | ***** | 0.200                      | -0.4887 |
| 0.250                       | -0.6344 | 0.250                    | ***** | 0.250                      | -0.5324 |
| 0.300                       | -0.6213 | 0.300                    | ***** | 0.300                      | -0.5268 |
| 0.350                       | -0.5986 | 0.350                    | ***** | 0.350                      | -0.5298 |
| 0.400                       | -0.5408 | 0.400                    | ***** | 0.400                      | -0.4990 |
| 0.450                       | -0.4787 | 0.450                    | ***** | 0.450                      | -0.4790 |
| 0.500                       | -0.4586 | 0.500                    | ***** | 0.500                      | -0.4294 |
| 0.550                       | -0.3915 | 0.550                    | ***** | 0.550                      | -0.4047 |

\*\*\* - no data

| Lower surface |        |       |       |       |         |
|---------------|--------|-------|-------|-------|---------|
| 0.005         | 0.2653 | 0.005 | ***** | 0.005 | 0.2215  |
| 0.010         | 0.0295 | 0.010 | ***** | 0.010 | -0.1337 |

Fight 26 Test point 24

Sweep, deg = 25.2 Mach = 0.75 hp, ft = 34900. Angle of attack, deg = 2.7  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 197.4 Rnpu = 1838000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8212  | 0.000                    | ***** | 0.000                      | 0.8730  |
| 0.005                       | -0.2415 | 0.005                    | ***** | 0.005                      | 0.1083  |
| 0.010                       | -0.5069 | 0.010                    | ***** | 0.010                      | -0.2305 |
| 0.020                       | -0.7431 | 0.020                    | ***** | 0.020                      | -0.6048 |
| 0.040                       | -0.9035 | 0.040                    | ***** | 0.040                      | -0.7340 |
| 0.060                       | -0.9744 | 0.060                    | ***** | 0.060                      | -0.8629 |
| 0.080                       | -0.8885 | 0.080                    | ***** | 0.080                      | -0.8437 |
| 0.100                       | -1.0228 | 0.100                    | ***** | 0.100                      | -0.8065 |
| 0.125                       | -0.8463 | 0.125                    | ***** | 0.125                      | -0.7896 |
| 0.150                       | -0.9799 | 0.150                    | ***** | 0.150                      | -0.7637 |
| 0.175                       | -0.9167 | 0.175                    | ***** | 0.175                      | -0.7896 |
| 0.200                       | -1.0051 | 0.200                    | ***** | 0.200                      | -0.8066 |
| 0.250                       | -1.0395 | 0.250                    | ***** | 0.250                      | -0.8928 |
| 0.300                       | -1.0274 | 0.300                    | ***** | 0.300                      | -0.8990 |
| 0.350                       | -0.7448 | 0.350                    | ***** | 0.350                      | -0.9139 |
| 0.400                       | -0.6637 | 0.400                    | ***** | 0.400                      | -0.5431 |
| 0.450                       | -0.5514 | 0.450                    | ***** | 0.450                      | -0.5588 |
| 0.500                       | -0.5211 | 0.500                    | ***** | 0.500                      | -0.5120 |
| 0.550                       | -0.4435 | 0.550                    | ***** | 0.550                      | -0.4660 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.6242 | 0.005 | ***** | 0.005 | 0.6085 |
| 0.010 | 0.4228 | 0.010 | ***** | 0.010 | 0.3164 |

Fight 26 Test point 25

Sweep, deg = 25.2 Mach = 0.75 hp, ft = 35400. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 191.9 Rnpu = 1796000.

| Upper surface               |         |                          |       |                            |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8931  | 0.000                    | ***** | 0.000                      | 0.9309  |
| 0.005                       | 0.2088  | 0.005                    | ***** | 0.005                      | 0.5029  |
| 0.010                       | -0.0464 | 0.010                    | ***** | 0.010                      | 0.2320  |
| 0.020                       | -0.2774 | 0.020                    | ***** | 0.020                      | -0.0808 |
| 0.040                       | -0.4601 | 0.040                    | ***** | 0.040                      | -0.2774 |
| 0.060                       | -0.5231 | 0.060                    | ***** | 0.060                      | -0.3655 |
| 0.080                       | -0.5631 | 0.080                    | ***** | 0.080                      | -0.3990 |
| 0.100                       | -0.5834 | 0.100                    | ***** | 0.100                      | -0.4205 |
| 0.125                       | -0.5510 | 0.125                    | ***** | 0.125                      | -0.4411 |
| 0.150                       | -0.6363 | 0.150                    | ***** | 0.150                      | -0.4875 |
| 0.175                       | -0.6223 | 0.175                    | ***** | 0.175                      | -0.5149 |
| 0.200                       | -0.6950 | 0.200                    | ***** | 0.200                      | -0.5116 |
| 0.250                       | -0.6989 | 0.250                    | ***** | 0.250                      | -0.5700 |
| 0.300                       | -0.6794 | 0.300                    | ***** | 0.300                      | -0.5640 |
| 0.350                       | -0.6436 | 0.350                    | ***** | 0.350                      | -0.5723 |
| 0.400                       | -0.5856 | 0.400                    | ***** | 0.400                      | -0.5458 |
| 0.450                       | -0.5098 | 0.450                    | ***** | 0.450                      | -0.5206 |
| 0.500                       | -0.4825 | 0.500                    | ***** | 0.500                      | -0.4579 |
| 0.550                       | -0.4133 | 0.550                    | ***** | 0.550                      | -0.4336 |

\*\*\* - no data

| Lower surface |        |       |       |       |         |
|---------------|--------|-------|-------|-------|---------|
| 0.005         | 0.2995 | 0.005 | ***** | 0.005 | 0.2408  |
| 0.010         | 0.0493 | 0.010 | ***** | 0.010 | -0.1439 |

Fight 26 Test point 26

Sweep, deg = 25.2 Mach = 0.79 hp, ft = 34700. Angle of attack, deg = 2.2  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 220.6 Rnpu = 1958000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8756  | 0.000                    | ***** | 0.000                      | 0.9072  |
| 0.005                       | -0.0267 | 0.005                    | ***** | 0.005                      | 0.2749  |
| 0.010                       | -0.2844 | 0.010                    | ***** | 0.010                      | -0.0312 |
| 0.020                       | -0.5229 | 0.020                    | ***** | 0.020                      | -0.3826 |
| 0.040                       | -0.7184 | 0.040                    | ***** | 0.040                      | -0.5478 |
| 0.060                       | -0.7712 | 0.060                    | ***** | 0.060                      | -0.7053 |
| 0.080                       | -0.7151 | 0.080                    | ***** | 0.080                      | -0.6513 |
| 0.100                       | -0.8801 | 0.100                    | ***   | 0.100                      | -0.6539 |
| 0.125                       | -0.7464 | 0.125                    | ***   | 0.125                      | -0.6917 |
| 0.150                       | -0.8684 | 0.150                    | ***** | 0.150                      | -0.7434 |
| 0.175                       | -0.8272 | 0.175                    | ***** | 0.175                      | -0.7697 |
| 0.200                       | -0.9112 | 0.200                    | ***** | 0.200                      | -0.7203 |
| 0.250                       | -0.9878 | 0.250                    | ***** | 0.250                      | -0.8139 |
| 0.300                       | -1.0375 | 0.300                    | ***** | 0.300                      | -0.8649 |
| 0.350                       | -1.0200 | 0.350                    | ***** | 0.350                      | -0.9436 |
| 0.400                       | -1.0018 | 0.400                    | ***** | 0.400                      | -0.9741 |
| 0.450                       | -1.0147 | 0.450                    | ***** | 0.450                      | -1.0224 |
| 0.500                       | -0.5726 | 0.500                    | ***** | 0.500                      | -1.0265 |
| 0.550                       | -0.3966 | 0.550                    | ***** | 0.550                      | -0.4495 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.5330 | 0.005 | ***** | 0.005 | 0.5175 |
| 0.010 | 0.3144 | 0.010 | ***** | 0.010 | 0.2003 |



Flight 26 Test point 27

Sweep, deg = 25.2 Mach = 0.76 hp, ft = 36100. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 190.3 Rnpu = 1764000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8919  | 0.000                    | ***** | 0.000                      | 0.9309  |
| 0.005                       | 0.0921  | 0.005                    | ***** | 0.005                      | 0.3964  |
| 0.010                       | -0.1578 | 0.010                    | ***** | 0.010                      | 0.1126  |
| 0.020                       | -0.4003 | 0.020                    | ***** | 0.020                      | -0.2190 |
| 0.040                       | -0.5770 | 0.040                    | ***** | 0.040                      | -0.4011 |
| 0.060                       | -0.6235 | 0.060                    | ***** | 0.060                      | -0.4904 |
| 0.080                       | -0.7157 | 0.080                    | ***** | 0.080                      | -0.5110 |
| 0.100                       | -0.6632 | 0.100                    | ***** | 0.100                      | -0.5303 |
| 0.125                       | -0.6842 | 0.125                    | ***** | 0.125                      | -0.5478 |
| 0.150                       | -0.6778 | 0.150                    | ***** | 0.150                      | -0.5839 |
| 0.175                       | -0.7376 | 0.175                    | ***** | 0.175                      | -0.6202 |
| 0.200                       | -0.7960 | 0.200                    | ***** | 0.200                      | -0.6159 |
| 0.250                       | -0.8189 | 0.250                    | ***** | 0.250                      | -0.6806 |
| 0.300                       | -0.7916 | 0.300                    | ***** | 0.300                      | -0.6619 |
| 0.350                       | -0.7323 | 0.350                    | ***** | 0.350                      | -0.6549 |
| 0.400                       | -0.6380 | 0.400                    | ***** | 0.400                      | -0.5928 |
| 0.450                       | -0.5338 | 0.450                    | ***** | 0.450                      | -0.5508 |
| 0.500                       | -0.5032 | 0.500                    | ***** | 0.500                      | -0.4847 |
| 0.550                       | -0.4279 | 0.550                    | ***** | 0.550                      | -0.4463 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.4158 | 0.005 | ***** | 0.005 | 0.3727 |
| 0.010 | 0.1703 | 0.010 | ***** | 0.010 | 0.0113 |

Fight 26 Test point 28

Sweep, deg = 25.1 Mach = 0.77 hp, ft = 37200. Angle of attack, deg = 3.3  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 184.2 Rnpu = 1704000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8107  | 0.000                    | ***** | 0.000                      | 0.8558  |
| 0.005                       | -0.2986 | 0.005                    | ***** | 0.005                      | 0.0392  |
| 0.010                       | -0.5669 | 0.010                    | ***** | 0.010                      | -0.3052 |
| 0.020                       | -0.7908 | 0.020                    | ***** | 0.020                      | -0.6952 |
| 0.040                       | -0.9761 | 0.040                    | ***** | 0.040                      | -0.8150 |
| 0.060                       | -1.0520 | 0.060                    | ***** | 0.060                      | -0.8743 |
| 0.080                       | -1.0163 | 0.080                    | ***** | 0.080                      | -0.9827 |
| 0.100                       | -1.0374 | 0.100                    | ***** | 0.100                      | -0.9747 |
| 0.125                       | -0.9391 | 0.125                    | ***** | 0.125                      | -0.9480 |
| 0.150                       | -1.0302 | 0.150                    | ***** | 0.150                      | -0.9434 |
| 0.175                       | -1.0154 | 0.175                    | ***** | 0.175                      | -0.9303 |
| 0.200                       | -1.1058 | 0.200                    | ***** | 0.200                      | -0.9250 |
| 0.250                       | -1.1571 | 0.250                    | ***** | 0.250                      | -0.9847 |
| 0.300                       | -1.2135 | 0.300                    | ***** | 0.300                      | -0.9629 |
| 0.350                       | -1.1651 | 0.350                    | ***** | 0.350                      | -1.0391 |
| 0.400                       | -1.1390 | 0.400                    | ***** | 0.400                      | -1.0681 |
| 0.450                       | -0.5592 | 0.450                    | ***** | 0.450                      | -1.0581 |
| 0.500                       | -0.4447 | 0.500                    | ***** | 0.500                      | -0.3845 |
| 0.550                       | -0.3970 | 0.550                    | ***** | 0.550                      | -0.3879 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.6729 | 0.005 | ***** | 0.005 | 0.6765 |
| 0.010 | 0.4863 | 0.010 | ***** | 0.010 | 0.4038 |

Fight 26 Test point 29

Sweep, deg = 25.1 Mach = 0.75 hp, ft = 36200. Angle of attack, deg = 3.1  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 184.3 Rnpu = 1731000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8026  | 0.000                    | ***** | 0.000                      | 0.8401  |
| 0.005                       | -0.3284 | 0.005                    | ***** | 0.005                      | 0.0242  |
| 0.010                       | -0.5914 | 0.010                    | ***** | 0.010                      | -0.3257 |
| 0.020                       | -0.8317 | 0.020                    | ***** | 0.020                      | -0.7150 |
| 0.040                       | -1.0095 | 0.040                    | ***** | 0.040                      | -0.8389 |
| 0.060                       | -1.0793 | 0.060                    | ***** | 0.060                      | -0.9243 |
| 0.080                       | -0.9966 | 0.080                    | ***** | 0.080                      | -0.9933 |
| 0.100                       | -1.0713 | 0.100                    | ***** | 0.100                      | -0.9491 |
| 0.125                       | -0.9184 | 0.125                    | ***** | 0.125                      | -0.8897 |
| 0.150                       | -1.0513 | 0.150                    | ***** | 0.150                      | -0.8769 |
| 0.175                       | -1.0024 | 0.175                    | ***** | 0.175                      | -0.8576 |
| 0.200                       | -1.0725 | 0.200                    | ***** | 0.200                      | -0.8247 |
| 0.250                       | -1.1054 | 0.250                    | ***** | 0.250                      | -0.8711 |
| 0.300                       | -1.1216 | 0.300                    | ***** | 0.300                      | -0.9161 |
| 0.350                       | -0.7374 | 0.350                    | ***** | 0.350                      | -0.9412 |
| 0.400                       | -0.6361 | 0.400                    | ***** | 0.400                      | -0.5471 |
| 0.450                       | -0.5523 | 0.450                    | ***** | 0.450                      | -0.5678 |
| 0.500                       | -0.5249 | 0.500                    | ***** | 0.500                      | -0.5124 |
| 0.550                       | -0.4421 | 0.550                    | ***** | 0.550                      | -0.4592 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.6660 | 0.005 | ***** | 0.005 | 0.6726 |
| 0.010 | 0.4714 | 0.010 | ***** | 0.010 | 0.3947 |

Fight 27 Test point 1

Sweep, deg = 30.4 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 352.6 Rnpu = 2933000.

| Upper surface               |         |                          |       |                            |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8057  | 0.000                    | ***** | 0.000                      | 0.8354  |
| 0.005                       | 0.1294  | 0.005                    | ***** | 0.005                      | 0.3724  |
| 0.010                       | -0.1011 | 0.010                    | ***** | 0.010                      | 0.1143  |
| 0.020                       | -0.3182 | 0.020                    | ***** | 0.020                      | -0.2014 |
| 0.040                       | -0.4705 | 0.040                    | ***** | 0.040                      | -0.3659 |
| 0.060                       | -0.4951 | 0.060                    | ***** | 0.060                      | -0.4551 |
| 0.080                       | -0.6140 | 0.080                    | ***** | 0.080                      | -0.4805 |
| 0.100                       | -0.7683 | 0.100                    | ***** | 0.100                      | -0.5275 |
| 0.125                       | -0.5929 | 0.125                    | ***** | 0.125                      | -0.5124 |
| 0.150                       | -0.6477 | 0.150                    | ***** | 0.150                      | -0.5677 |
| 0.175                       | -0.6479 | 0.175                    | ***** | 0.175                      | -0.6105 |
| 0.200                       | -0.7237 | 0.200                    | ***** | 0.200                      | -0.6185 |
| 0.250                       | -0.7943 | 0.250                    | ***** | 0.250                      | -0.6727 |
| 0.300                       | -0.7287 | 0.300                    | ***** | 0.300                      | -0.7177 |
| 0.350                       | -0.7510 | 0.350                    | ***** | 0.350                      | -0.7853 |
| 0.400                       | -0.7496 | 0.400                    | ***** | 0.400                      | -0.8132 |
| 0.450                       | -0.7418 | 0.450                    | ***** | 0.450                      | -0.8284 |
| 0.500                       | -0.4935 | 0.500                    | ***** | 0.500                      | -0.3683 |
| 0.550                       | -0.4163 | 0.550                    | ***** | 0.550                      | -0.3912 |

\*\*\* - no data

| Lower surface               |        |                          |       |                            |         |
|-----------------------------|--------|--------------------------|-------|----------------------------|---------|
| BL 200.8<br>Inboard station |        | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
| x/c                         | Cp     | x/c                      | Cp    | x/c                        | Cp      |
| 0.005                       | 0.3293 | 0.005                    | ***** | 0.005                      | 0.2975  |
| 0.010                       | 0.0987 | 0.010                    | ***** | 0.010                      | -0.0355 |

Fight 27 Test point 2

Sweep, deg = 30.4 Mach = 0.80 hp, ft = 24700. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 357.5 Rnpu = 2966000.

| Upper surface               |         |                          |       |                            |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.7927  | 0.000                    | ***** | 0.000                      | 0.8200  |
| 0.005                       | 0.0115  | 0.005                    | ***** | 0.005                      | 0.2672  |
| 0.010                       | -0.2260 | 0.010                    | ***** | 0.010                      | -0.0092 |
| 0.020                       | -0.4451 | 0.020                    | ***** | 0.020                      | -0.3360 |
| 0.040                       | -0.6710 | 0.040                    | ***** | 0.040                      | -0.4855 |
| 0.060                       | -0.5546 | 0.060                    | ***** | 0.060                      | -0.6135 |
| 0.080                       | -0.6429 | 0.080                    | ***** | 0.080                      | -0.5593 |
| 0.100                       | -0.8247 | 0.100                    | ***** | 0.100                      | -0.5978 |
| 0.125                       | -0.6607 | 0.125                    | ***** | 0.125                      | -0.6728 |
| 0.150                       | -0.7522 | 0.150                    | ***** | 0.150                      | -0.6037 |
| 0.175                       | -0.7328 | 0.175                    | ***** | 0.175                      | -0.6626 |
| 0.200                       | -0.8141 | 0.200                    | ***** | 0.200                      | -0.6884 |
| 0.250                       | -0.8722 | 0.250                    | ***** | 0.250                      | -0.7585 |
| 0.300                       | -0.9045 | 0.300                    | ***** | 0.300                      | -0.8002 |
| 0.350                       | -0.7847 | 0.350                    | ***** | 0.350                      | -0.8577 |
| 0.400                       | -0.7549 | 0.400                    | ***** | 0.400                      | -0.8906 |
| 0.450                       | -0.7733 | 0.450                    | ***** | 0.450                      | -0.9413 |
| 0.500                       | -0.6215 | 0.500                    | ***** | 0.500                      | -0.5401 |
| 0.550                       | -0.4100 | 0.550                    | ***** | 0.550                      | -0.3562 |

\*\*\* - no data

| Lower surface |        |       |       |       |        |
|---------------|--------|-------|-------|-------|--------|
| 0.005         | 0.4183 | 0.005 | ***** | 0.005 | 0.4050 |
| 0.010         | 0.2049 | 0.010 | ***** | 0.010 | 0.1047 |

Fight 27 Test point 3

Sweep, deg = 25.1 Mach = 0.80 hp, ft = 25100. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 352.2 Rnpu = 2934000.

| Upper surface               |         |                          |       |                            |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9059  | 0.000                    | ***** | 0.000                      | 0.9319  |
| 0.005                       | 0.2465  | 0.005                    | ***** | 0.005                      | 0.5072  |
| 0.010                       | -0.0047 | 0.010                    | ***** | 0.010                      | 0.2424  |
| 0.020                       | -0.2422 | 0.020                    | ***** | 0.020                      | -0.0903 |
| 0.040                       | -0.4406 | 0.040                    | ***** | 0.040                      | -0.2785 |
| 0.060                       | -0.4626 | 0.060                    | ***** | 0.060                      | -0.3889 |
| 0.080                       | -0.5703 | 0.080                    | ***** | 0.080                      | -0.4333 |
| 0.100                       | -0.7352 | 0.100                    | ***** | 0.100                      | -0.4646 |
| 0.125                       | -0.5749 | 0.125                    | ***** | 0.125                      | -0.4822 |
| 0.150                       | -0.6389 | 0.150                    | ***** | 0.150                      | -0.5444 |
| 0.175                       | -0.6401 | 0.175                    | ***** | 0.175                      | -0.5792 |
| 0.200                       | -0.7352 | 0.200                    | ***** | 0.200                      | -0.6010 |
| 0.250                       | -0.8340 | 0.250                    | ***** | 0.250                      | -0.6738 |
| 0.300                       | -0.8953 | 0.300                    | ***** | 0.300                      | -0.7293 |
| 0.350                       | -0.8954 | 0.350                    | ***** | 0.350                      | -0.7995 |
| 0.400                       | -0.8920 | 0.400                    | ***** | 0.400                      | -0.8480 |
| 0.450                       | -0.7925 | 0.450                    | ***** | 0.450                      | -0.9072 |
| 0.500                       | -0.8226 | 0.500                    | ***** | 0.500                      | -0.9290 |
| 0.550                       | -0.4066 | 0.550                    | ***** | 0.550                      | -0.5949 |

\*\*\* - no data

| Lower surface |        |       |       |       |         |
|---------------|--------|-------|-------|-------|---------|
| 0.005         | 0.3324 | 0.005 | ***** | 0.005 | 0.2751  |
| 0.010         | 0.0744 | 0.010 | ***** | 0.010 | -0.1020 |

Fight 27 Test point 4

Sweep, deg = 25.0 Mach = 0.80 hp, ft = 24900. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 355.5 Rnpu = 2951000.

| Upper surface               |         |                          |       |                            |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9063  | 0.000                    | ***** | 0.000                      | 0.9327  |
| 0.005                       | 0.1794  | 0.005                    | ***** | 0.005                      | 0.4569  |
| 0.010                       | -0.0740 | 0.010                    | ***** | 0.010                      | 0.1810  |
| 0.020                       | -0.3144 | 0.020                    | ***** | 0.020                      | -0.1555 |
| 0.040                       | -0.5142 | 0.040                    | ***** | 0.040                      | -0.3383 |
| 0.060                       | -0.5088 | 0.060                    | ***** | 0.060                      | -0.4454 |
| 0.080                       | -0.5867 | 0.080                    | ***** | 0.080                      | -0.4839 |
| 0.100                       | -0.7551 | 0.100                    | ***** | 0.100                      | -0.5246 |
| 0.125                       | -0.6171 | 0.125                    | ***** | 0.125                      | -0.5015 |
| 0.150                       | -0.7121 | 0.150                    | ***** | 0.150                      | -0.5690 |
| 0.175                       | -0.7055 | 0.175                    | ***** | 0.175                      | -0.6157 |
| 0.200                       | -0.7889 | 0.200                    | ***** | 0.200                      | -0.6308 |
| 0.250                       | -0.8652 | 0.250                    | ***** | 0.250                      | -0.7132 |
| 0.300                       | -0.9210 | 0.300                    | ***** | 0.300                      | -0.7701 |
| 0.350                       | -0.9224 | 0.350                    | ***** | 0.350                      | -0.8439 |
| 0.400                       | -0.9442 | 0.400                    | ***** | 0.400                      | -0.8872 |
| 0.450                       | -0.9523 | 0.450                    | ***** | 0.450                      | -0.9413 |
| 0.500                       | -0.8887 | 0.500                    | ***** | 0.500                      | -0.9680 |
| 0.550                       | -0.4059 | 0.550                    | ***** | 0.550                      | -0.6429 |

\*\*\* - no data

| Lower surface |        |       |       |       |         |
|---------------|--------|-------|-------|-------|---------|
| 0.005         | 0.3988 | 0.005 | ***** | 0.005 | 0.3450  |
| 0.010         | 0.1493 | 0.010 | ***** | 0.010 | -0.0188 |

Fight 27 Test point 5

Sweep, deg = 25.0 Mach = 0.81 hp, ft = 25100. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 354.8 Rnpu = 2944000.

| Upper surface               |         |                          |       |                            |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8973  | 0.000                    | ***** | 0.000                      | 0.9286  |
| 0.005                       | 0.0772  | 0.005                    | ***** | 0.005                      | 0.3745  |
| 0.010                       | -0.1751 | 0.010                    | ***** | 0.010                      | 0.0856  |
| 0.020                       | -0.4229 | 0.020                    | ***** | 0.020                      | -0.2605 |
| 0.040                       | -0.6490 | 0.040                    | ***** | 0.040                      | -0.4350 |
| 0.060                       | -0.6868 | 0.060                    | ***** | 0.060                      | -0.5848 |
| 0.080                       | -0.5601 | 0.080                    | ***** | 0.080                      | -0.5772 |
| 0.100                       | -0.7723 | 0.100                    | ***** | 0.100                      | -0.5765 |
| 0.125                       | -0.6901 | 0.125                    | ***** | 0.125                      | -0.6391 |
| 0.150                       | -0.8064 | 0.150                    | ***** | 0.150                      | -0.6519 |
| 0.175                       | -0.7758 | 0.175                    | ***** | 0.175                      | -0.6263 |
| 0.200                       | -0.8446 | 0.200                    | ***** | 0.200                      | -0.6655 |
| 0.250                       | -0.9292 | 0.250                    | ***** | 0.250                      | -0.7533 |
| 0.300                       | -0.9911 | 0.300                    | ***** | 0.300                      | -0.8154 |
| 0.350                       | -0.9895 | 0.350                    | ***** | 0.350                      | -0.8954 |
| 0.400                       | -0.9945 | 0.400                    | ***** | 0.400                      | -0.9380 |
| 0.450                       | -0.9955 | 0.450                    | ***** | 0.450                      | -0.9855 |
| 0.500                       | -0.9604 | 0.500                    | ***** | 0.500                      | -1.0181 |
| 0.550                       | -0.4172 | 0.550                    | ***** | 0.550                      | -0.4926 |

\*\*\* - no data

| Lower surface |        |       |       |       |        |
|---------------|--------|-------|-------|-------|--------|
| 0.005         | 0.4871 | 0.005 | ***** | 0.005 | 0.4356 |
| 0.010         | 0.2529 | 0.010 | ***** | 0.010 | 0.1005 |



Flight 27 Test point 6

Sweep, deg = 20.1 Mach = 0.80 hp, ft = 24900. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 352.5 Rnpu = 2939000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9819  | 0.000                    | ***** | 0.000                      | 1.0065  |
| 0.005                       | 0.2444  | 0.005                    | ***** | 0.005                      | 0.5365  |
| 0.010                       | -0.0190 | 0.010                    | ***** | 0.010                      | 0.2542  |
| 0.020                       | -0.2796 | 0.020                    | ***** | 0.020                      | -0.1016 |
| 0.040                       | -0.5036 | 0.040                    | ***** | 0.040                      | -0.2972 |
| 0.060                       | -0.5230 | 0.060                    | ***** | 0.060                      | -0.4133 |
| 0.080                       | -0.5789 | 0.080                    | ***** | 0.080                      | -0.4565 |
| 0.100                       | -0.7318 | 0.100                    | ***** | 0.100                      | -0.4948 |
| 0.125                       | -0.6466 | 0.125                    | ***** | 0.125                      | -0.4971 |
| 0.150                       | -0.7458 | 0.150                    | ***** | 0.150                      | -0.5596 |
| 0.175                       | -0.7141 | 0.175                    | ***** | 0.175                      | -0.5923 |
| 0.200                       | -0.8004 | 0.200                    | ***** | 0.200                      | -0.6242 |
| 0.250                       | -0.8915 | 0.250                    | ***** | 0.250                      | -0.7072 |
| 0.300                       | -0.9691 | 0.300                    | ***** | 0.300                      | -0.7711 |
| 0.350                       | -0.9670 | 0.350                    | ***** | 0.350                      | -0.8525 |
| 0.400                       | -0.9763 | 0.400                    | ***** | 0.400                      | -0.8923 |
| 0.450                       | -0.9793 | 0.450                    | ***** | 0.450                      | -0.9448 |
| 0.500                       | -1.0854 | 0.500                    | ***** | 0.500                      | -0.9830 |
| 0.550                       | -0.4291 | 0.550                    | ***** | 0.550                      | -0.8605 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |         |
|-------|--------|-------|-------|-------|---------|
| 0.005 | 0.4253 | 0.005 | ***** | 0.005 | 0.3527  |
| 0.010 | 0.1581 | 0.010 | ***** | 0.010 | -0.0403 |

Flight 27 Test point 7

Sweep, deg = 20.1 Mach = 0.80 hp, ft = 25300. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 342.3 Rrho = 2877000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9790  | 0.000                    | ***** | 0.000                      | 1.0084  |
| 0.005                       | 0.2249  | 0.005                    | ***** | 0.005                      | 0.5233  |
| 0.010                       | -0.0440 | 0.010                    | ***** | 0.010                      | 0.2387  |
| 0.020                       | -0.2990 | 0.020                    | ***** | 0.020                      | -0.1142 |
| 0.040                       | -0.5182 | 0.040                    | ***** | 0.040                      | -0.3125 |
| 0.060                       | -0.5386 | 0.060                    | ***** | 0.060                      | -0.4297 |
| 0.080                       | -0.5942 | 0.080                    | ***** | 0.080                      | -0.4695 |
| 0.100                       | -0.7448 | 0.100                    | ***** | 0.100                      | -0.5096 |
| 0.125                       | -0.6638 | 0.125                    | ***** | 0.125                      | -0.5089 |
| 0.150                       | -0.7598 | 0.150                    | ***** | 0.150                      | -0.5682 |
| 0.175                       | -0.7257 | 0.175                    | ***** | 0.175                      | -0.5952 |
| 0.200                       | -0.8119 | 0.200                    | ***** | 0.200                      | -0.6325 |
| 0.250                       | -0.9015 | 0.250                    | ***** | 0.250                      | -0.7213 |
| 0.300                       | -0.9804 | 0.300                    | ***** | 0.300                      | -0.7773 |
| 0.350                       | -0.9784 | 0.350                    | ***** | 0.350                      | -0.8603 |
| 0.400                       | -0.9813 | 0.400                    | ***** | 0.400                      | -0.8951 |
| 0.450                       | -0.9806 | 0.450                    | ***** | 0.450                      | -0.9453 |
| 0.500                       | -1.0911 | 0.500                    | ***** | 0.500                      | -0.9806 |
| 0.550                       | -0.4277 | 0.550                    | ***** | 0.550                      | -0.8298 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |         |
|-------|--------|-------|-------|-------|---------|
| 0.005 | 0.4352 | 0.005 | ***** | 0.005 | 0.3669  |
| 0.010 | 0.1709 | 0.010 | ***** | 0.010 | -0.0252 |

Flight 27 Test point 8

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 24900. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -4.8 QBAR, lb/ft<sup>2</sup> = 354.0 Rnpu = 2940000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 1.0344  | 0.000                    | ***** | 0.000                      | 1.0652  |
| 0.005                       | 0.4047  | 0.005                    | ***** | 0.005                      | 0.6968  |
| 0.010                       | 0.1380  | 0.010                    | ***** | 0.010                      | 0.4308  |
| 0.020                       | -0.1269 | 0.020                    | ***** | 0.020                      | 0.0835  |
| 0.040                       | -0.3533 | 0.040                    | ***** | 0.040                      | -0.1322 |
| 0.060                       | -0.4216 | 0.060                    | ***** | 0.060                      | -0.2595 |
| 0.080                       | -0.4992 | 0.080                    | ***** | 0.080                      | -0.3167 |
| 0.100                       | -0.6395 | 0.100                    | ***** | 0.100                      | -0.3582 |
| 0.125                       | -0.4972 | 0.125                    | ***** | 0.125                      | -0.3868 |
| 0.150                       | -0.6111 | 0.150                    | ***** | 0.150                      | -0.4386 |
| 0.175                       | -0.6327 | 0.175                    | ***** | 0.175                      | -0.4950 |
| 0.200                       | -0.7268 | 0.200                    | ***** | 0.200                      | -0.5249 |
| 0.250                       | -0.8254 | 0.250                    | ***** | 0.250                      | -0.6132 |
| 0.300                       | -0.9109 | 0.300                    | ***** | 0.300                      | -0.6821 |
| 0.350                       | -0.9220 | 0.350                    | ***** | 0.350                      | -0.7636 |
| 0.400                       | -0.9378 | 0.400                    | ***** | 0.400                      | -0.7982 |
| 0.450                       | -0.9616 | 0.450                    | ***** | 0.450                      | -0.8491 |
| 0.500                       | -1.0458 | 0.500                    | ***** | 0.500                      | -0.8830 |
| 0.550                       | -0.4873 | 0.550                    | ***** | 0.550                      | -0.9179 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |         |
|-------|--------|-------|-------|-------|---------|
| 0.005 | 0.3512 | 0.005 | ***** | 0.005 | 0.2566  |
| 0.010 | 0.0643 | 0.010 | ***** | 0.010 | -0.1806 |

Flight 27 Test point 9

Sweep, deg = 20.1 Mach = 0.81 hp, ft = 25500. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = -0.6 QBAR, lb/ft<sup>2</sup> = 351.2 Rnpu = 2907000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9826  | 0.000                    | ***** | 0.000                      | 1.0125  |
| 0.005                       | 0.1676  | 0.005                    | ***** | 0.005                      | 0.4833  |
| 0.010                       | -0.0988 | 0.010                    | ***** | 0.010                      | 0.1926  |
| 0.020                       | -0.3556 | 0.020                    | ***** | 0.020                      | -0.1696 |
| 0.040                       | -0.5996 | 0.040                    | ***** | 0.040                      | -0.3598 |
| 0.060                       | -0.6442 | 0.060                    | ***** | 0.060                      | -0.4827 |
| 0.080                       | -0.5788 | 0.080                    | ***** | 0.080                      | -0.5228 |
| 0.100                       | -0.7290 | 0.100                    | ***** | 0.100                      | -0.5461 |
| 0.125                       | -0.7135 | 0.125                    | ***** | 0.125                      | -0.5841 |
| 0.150                       | -0.8037 | 0.150                    | ***** | 0.150                      | -0.6275 |
| 0.175                       | -0.7849 | 0.175                    | ***** | 0.175                      | -0.6091 |
| 0.200                       | -0.8504 | 0.200                    | ***** | 0.200                      | -0.6407 |
| 0.250                       | -0.9359 | 0.250                    | ***** | 0.250                      | -0.7327 |
| 0.300                       | -1.0195 | 0.300                    | ***** | 0.300                      | -0.8027 |
| 0.350                       | -1.0201 | 0.350                    | ***** | 0.350                      | -0.8843 |
| 0.400                       | -1.0351 | 0.400                    | ***** | 0.400                      | -0.9246 |
| 0.450                       | -0.9314 | 0.450                    | ***** | 0.450                      | -0.9791 |
| 0.500                       | -0.5521 | 0.500                    | ***** | 0.500                      | -1.0082 |
| 0.550                       | -0.4629 | 0.550                    | ***** | 0.550                      | -0.5841 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.5086 | 0.005 | ***** | 0.005 | 0.4358 |
| 0.010 | 0.2539 | 0.010 | ***** | 0.010 | 0.0632 |

Flight 27 Test point 10

Sweep, deg = 20.0 Mach = 0.81 hp, ft = 24100. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 375.4 Rnpu = 3066000.

| Upper surface               |         |                          |       |                            |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9901  | 0.000                    | ***** | 0.000                      | 1.0157  |
| 0.005                       | 0.2295  | 0.005                    | ***** | 0.005                      | 0.5330  |
| 0.010                       | -0.0370 | 0.010                    | ***** | 0.010                      | 0.2530  |
| 0.020                       | -0.2920 | 0.020                    | ***** | 0.020                      | -0.1040 |
| 0.040                       | -0.5464 | 0.040                    | ***** | 0.040                      | -0.3015 |
| 0.060                       | -0.5830 | 0.060                    | ***** | 0.060                      | -0.4204 |
| 0.080                       | -0.5552 | 0.080                    | ***** | 0.080                      | -0.4585 |
| 0.100                       | -0.7098 | 0.100                    | ***** | 0.100                      | -0.4971 |
| 0.125                       | -0.6687 | 0.125                    | ***** | 0.125                      | -0.5239 |
| 0.150                       | -0.7647 | 0.150                    | ***** | 0.150                      | -0.5395 |
| 0.175                       | -0.7425 | 0.175                    | ***** | 0.175                      | -0.5980 |
| 0.200                       | -0.8076 | 0.200                    | ***** | 0.200                      | -0.6210 |
| 0.250                       | -0.9029 | 0.250                    | ***** | 0.250                      | -0.7049 |
| 0.300                       | -0.9794 | 0.300                    | ***** | 0.300                      | -0.7675 |
| 0.350                       | -0.9834 | 0.350                    | ***** | 0.350                      | -0.8488 |
| 0.400                       | -1.0008 | 0.400                    | ***** | 0.400                      | -0.8883 |
| 0.450                       | -0.9511 | 0.450                    | ***** | 0.450                      | -0.9487 |
| 0.500                       | -0.5331 | 0.500                    | ***** | 0.500                      | -0.9849 |
| 0.550                       | -0.4474 | 0.550                    | ***** | 0.550                      | -0.7141 |

\*\*\* - no data

| Lower surface |        |       |       |       |         |
|---------------|--------|-------|-------|-------|---------|
| 0.005         | 0.4632 | 0.005 | ***** | 0.005 | 0.3825  |
| 0.010         | 0.2011 | 0.010 | ***** | 0.010 | -0.0039 |

Flight 27 Test point 11

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 336.3 Rnpu = 3019000.

| Upper surface               |         |                          |       |                            |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.7786  | 0.000                    | ***** | 0.000                      | 0.8168  |
| 0.005                       | -0.0488 | 0.005                    | ***** | 0.005                      | 0.2766  |
| 0.010                       | -0.2836 | 0.010                    | ***** | 0.010                      | 0.0039  |
| 0.020                       | -0.4823 | 0.020                    | ***** | 0.020                      | -0.3017 |
| 0.040                       | -0.5951 | 0.040                    | ***** | 0.040                      | -0.4230 |
| 0.060                       | -0.6050 | 0.060                    | ***** | 0.060                      | -0.4802 |
| 0.080                       | -0.6289 | 0.080                    | ***** | 0.080                      | -0.4840 |
| 0.100                       | -0.6182 | 0.100                    | ***** | 0.100                      | -0.4879 |
| 0.125                       | -0.5519 | 0.125                    | ***** | 0.125                      | -0.4763 |
| 0.150                       | -0.6243 | 0.150                    | ***** | 0.150                      | -0.4953 |
| 0.175                       | -0.6035 | 0.175                    | ***** | 0.175                      | -0.5145 |
| 0.200                       | -0.6435 | 0.200                    | ***** | 0.200                      | -0.5087 |
| 0.250                       | -0.6352 | 0.250                    | ***** | 0.250                      | -0.5325 |
| 0.300                       | -0.6166 | 0.300                    | ***** | 0.300                      | -0.5210 |
| 0.350                       | -0.5724 | 0.350                    | ***** | 0.350                      | -0.5220 |
| 0.400                       | -0.5251 | 0.400                    | ***** | 0.400                      | -0.4998 |
| 0.450                       | -0.4700 | 0.450                    | ***** | 0.450                      | -0.4745 |
| 0.500                       | -0.4579 | 0.500                    | ***** | 0.500                      | -0.4413 |
| 0.550                       | -0.3995 | 0.550                    | ***** | 0.550                      | -0.4362 |

\*\*\* - no data

| Lower surface |        |       |       |       |        |
|---------------|--------|-------|-------|-------|--------|
| 0.005         | 0.3981 | 0.005 | ***** | 0.005 | 0.3299 |
| 0.010         | 0.1798 | 0.010 | ***** | 0.010 | 0.0138 |

Flight 27 Test point 12

Sweep, deg = 30.0 Mach = 0.71 hp, ft = 19900. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 344.3 Rnpu = 3062000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.005                       | 0.7725  | 0.000                    | ***** | 0.000                      | 0.8122  |
| 0.005                       | -0.0767 | 0.005                    | ***** | 0.005                      | 0.2475  |
| 0.010                       | -0.3117 | 0.010                    | ***** | 0.010                      | -0.0312 |
| 0.020                       | -0.5145 | 0.020                    | ***** | 0.020                      | -0.3392 |
| 0.040                       | -0.6141 | 0.040                    | ***** | 0.040                      | -0.4579 |
| 0.060                       | -0.6369 | 0.060                    | ***** | 0.060                      | -0.5038 |
| 0.080                       | -0.6569 | 0.080                    | ***** | 0.080                      | -0.5088 |
| 0.100                       | -0.6401 | 0.100                    | ***** | 0.100                      | -0.5106 |
| 0.125                       | -0.5741 | 0.125                    | ***** | 0.125                      | -0.4982 |
| 0.150                       | -0.6444 | 0.150                    | ***** | 0.150                      | -0.5116 |
| 0.175                       | -0.6225 | 0.175                    | ***** | 0.175                      | -0.5361 |
| 0.200                       | -0.6630 | 0.200                    | ***** | 0.200                      | -0.5289 |
| 0.250                       | -0.6515 | 0.250                    | ***** | 0.250                      | -0.5498 |
| 0.300                       | -0.6351 | 0.300                    | ***** | 0.300                      | -0.5375 |
| 0.350                       | -0.5874 | 0.350                    | ***** | 0.350                      | -0.5330 |
| 0.400                       | -0.5369 | 0.400                    | ***** | 0.400                      | -0.5107 |
| 0.450                       | -0.4789 | 0.450                    | ***** | 0.450                      | -0.4816 |
| 0.500                       | -0.4659 | 0.500                    | ***** | 0.500                      | -0.4449 |
| 0.550                       | -0.4051 | 0.550                    | ***** | 0.550                      | -0.4431 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.3176 | 0.005 | ***** | 0.005 | 0.3639 |
| 0.010 | 0.2010 | 0.010 | ***** | 0.010 | 0.0580 |

Fight 27 Test point 13

Sweep, deg = 30.0 Mach = 0.71 hp, ft = 19800. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 340.6 Rnpu = 3045000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.7855  | 0.000                    | ***** | 0.000                      | 0.8244  |
| 0.005                       | 0.0057  | 0.005                    | ***** | 0.005                      | 0.3228  |
| 0.010                       | -0.2275 | 0.010                    | ***** | 0.010                      | 0.0556  |
| 0.020                       | -0.4330 | 0.020                    | ***** | 0.020                      | -0.2466 |
| 0.040                       | -0.5529 | 0.040                    | ***** | 0.040                      | -0.3808 |
| 0.060                       | -0.5702 | 0.060                    | ***** | 0.060                      | -0.4368 |
| 0.080                       | -0.5954 | 0.080                    | ***** | 0.080                      | -0.4484 |
| 0.100                       | -0.5881 | 0.100                    | ***** | 0.100                      | -0.4525 |
| 0.125                       | -0.5342 | 0.125                    | ***** | 0.125                      | -0.4475 |
| 0.150                       | -0.6021 | 0.150                    | ***** | 0.150                      | -0.4677 |
| 0.175                       | -0.5826 | 0.175                    | ***** | 0.175                      | -0.4953 |
| 0.200                       | -0.6259 | 0.200                    | ***** | 0.200                      | -0.4875 |
| 0.250                       | -0.6192 | 0.250                    | ***** | 0.250                      | -0.5174 |
| 0.300                       | -0.6014 | 0.300                    | ***** | 0.300                      | -0.5013 |
| 0.350                       | -0.5613 | 0.350                    | ***** | 0.350                      | -0.5055 |
| 0.400                       | -0.5156 | 0.400                    | ***** | 0.400                      | -0.4877 |
| 0.450                       | -0.4644 | 0.450                    | ***** | 0.450                      | -0.4672 |
| 0.500                       | -0.4543 | 0.500                    | ***** | 0.500                      | -0.4329 |
| 0.550                       | -0.3941 | 0.550                    | ***** | 0.550                      | -0.4323 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |         |
|-------|--------|-------|-------|-------|---------|
| 0.005 | 0.3613 | 0.005 | ***** | 0.005 | 0.2897  |
| 0.010 | 0.1337 | 0.010 | ***** | 0.010 | -0.0346 |



Flight 27 Test point 14

Sweep, deg = 30.0 Mach = 0.71 hp, ft = 20000. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 345.4 Rnpu = 3061000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.7815  | 0.000                    | ***** | 0.000                      | 0.8213  |
| 0.005                       | -0.0333 | 0.005                    | ***** | 0.005                      | 0.2794  |
| 0.010                       | -0.2711 | 0.010                    | ***** | 0.010                      | 0.0045  |
| 0.020                       | -0.4746 | 0.020                    | ***** | 0.020                      | -0.3017 |
| 0.040                       | -0.5934 | 0.040                    | ***** | 0.040                      | -0.4270 |
| 0.060                       | -0.6092 | 0.060                    | ***** | 0.060                      | -0.4827 |
| 0.080                       | -0.6359 | 0.080                    | ***** | 0.080                      | -0.4878 |
| 0.100                       | -0.6255 | 0.100                    | ***** | 0.100                      | -0.4934 |
| 0.125                       | -0.5667 | 0.125                    | ***** | 0.125                      | -0.4838 |
| 0.150                       | -0.6354 | 0.150                    | ***** | 0.150                      | -0.5012 |
| 0.175                       | -0.6135 | 0.175                    | ***** | 0.175                      | -0.5248 |
| 0.200                       | -0.6586 | 0.200                    | ***** | 0.200                      | -0.5153 |
| 0.250                       | -0.6451 | 0.250                    | ***** | 0.250                      | -0.5384 |
| 0.300                       | -0.6336 | 0.300                    | ***** | 0.300                      | -0.5310 |
| 0.350                       | -0.5877 | 0.350                    | ***** | 0.350                      | -0.5326 |
| 0.400                       | -0.5368 | 0.400                    | ***** | 0.400                      | -0.5078 |
| 0.450                       | -0.4815 | 0.450                    | ***** | 0.450                      | -0.4829 |
| 0.500                       | -0.4662 | 0.500                    | ***** | 0.500                      | -0.4477 |
| 0.550                       | -0.4059 | 0.550                    | ***** | 0.550                      | -0.4424 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.3891 | 0.005 | ***** | 0.005 | 0.3390 |
| 0.010 | 0.1690 | 0.010 | ***** | 0.010 | 0.0220 |

Fight 27 Test point 15

Sweep, deg = 25.4 Mach = 0.70 hp, ft = 20100. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.2 QRAR, lb/ft<sup>2</sup> = 332.5 Rnpu = 2994000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8727  | 0.000                    | ***** | 0.000                      | 0.9051  |
| 0.005                       | 0.0959  | 0.005                    | ***** | 0.005                      | 0.4272  |
| 0.010                       | -0.1527 | 0.010                    | ***** | 0.010                      | 0.1483  |
| 0.020                       | -0.3898 | 0.020                    | ***** | 0.020                      | -0.1750 |
| 0.040                       | -0.5416 | 0.040                    | ***** | 0.040                      | -0.3352 |
| 0.060                       | -0.5783 | 0.060                    | ***** | 0.060                      | -0.4131 |
| 0.080                       | -0.6088 | 0.080                    | ***** | 0.080                      | -0.4334 |
| 0.100                       | -0.6073 | 0.100                    | ***** | 0.100                      | -0.4510 |
| 0.125                       | -0.5505 | 0.125                    | ***** | 0.125                      | -0.4556 |
| 0.150                       | -0.6245 | 0.150                    | ***** | 0.150                      | -0.4785 |
| 0.175                       | -0.6093 | 0.175                    | ***** | 0.175                      | -0.5031 |
| 0.200                       | -0.6591 | 0.200                    | ***** | 0.200                      | -0.4991 |
| 0.250                       | -0.6538 | 0.250                    | ***** | 0.250                      | -0.5364 |
| 0.300                       | -0.6421 | 0.300                    | ***** | 0.300                      | -0.5331 |
| 0.350                       | -0.5985 | 0.350                    | ***** | 0.350                      | -0.5382 |
| 0.400                       | -0.5510 | 0.400                    | ***** | 0.400                      | -0.5196 |
| 0.450                       | -0.4946 | 0.450                    | ***** | 0.450                      | -0.4978 |
| 0.500                       | -0.4764 | 0.500                    | ***** | 0.500                      | -0.4628 |
| 0.550                       | -0.4155 | 0.550                    | ***** | 0.550                      | -0.4519 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |         |
|-------|--------|-------|-------|-------|---------|
| 0.005 | 0.3571 | 0.005 | ***** | 0.005 | 0.2602  |
| 0.010 | 0.1077 | 0.010 | ***** | 0.010 | -0.1081 |

Flight 27 Test point 16

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 20400. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 326.3 Rnpu = 2954000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8430  | 0.000                    | ***** | 0.000                      | 0.8885  |
| 0.005                       | -0.1536 | 0.005                    | ***** | 0.005                      | 0.2293  |
| 0.010                       | -0.4144 | 0.010                    | ***** | 0.010                      | -0.0826 |
| 0.020                       | -0.6436 | 0.020                    | ***** | 0.020                      | -0.4276 |
| 0.040                       | -0.7687 | 0.040                    | ***** | 0.040                      | -0.5489 |
| 0.060                       | -0.7666 | 0.060                    | ***** | 0.060                      | -0.6009 |
| 0.080                       | -0.8113 | 0.080                    | ***** | 0.080                      | -0.5985 |
| 0.100                       | -0.7657 | 0.100                    | ***** | 0.100                      | -0.5981 |
| 0.125                       | -0.6655 | 0.125                    | ***** | 0.125                      | -0.5883 |
| 0.150                       | -0.7526 | 0.150                    | ***** | 0.150                      | -0.6011 |
| 0.175                       | -0.7178 | 0.175                    | ***** | 0.175                      | -0.6162 |
| 0.200                       | -0.7676 | 0.200                    | ***** | 0.200                      | -0.6038 |
| 0.250                       | -0.7441 | 0.250                    | ***** | 0.250                      | -0.6246 |
| 0.300                       | -0.7196 | 0.300                    | ***** | 0.300                      | -0.6064 |
| 0.350                       | -0.6636 | 0.350                    | ***** | 0.350                      | -0.5985 |
| 0.400                       | -0.5969 | 0.400                    | ***** | 0.400                      | -0.5692 |
| 0.450                       | -0.5312 | 0.450                    | ***** | 0.450                      | -0.5365 |
| 0.500                       | -0.5074 | 0.500                    | ***** | 0.500                      | -0.4922 |
| 0.550                       | -0.4408 | 0.550                    | ***** | 0.550                      | -0.4732 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.5241 | 0.005 | ***** | 0.005 | 0.4624 |
| 0.010 | 0.3037 | 0.010 | ***** | 0.010 | 0.1404 |

Fight 27 Test point 17

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 19900. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 329.6 Rnpu = 2985000.

| BL 200.8<br>Inboard station |         | Upper surface<br>BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|---|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                                       | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9475  | 0.000                                     | ***** | 0.000                      | 0.9778  |
| 0.005                       | 0.2242  | 0.005                                     | ***** | 0.005                      | 0.5581  |
| 0.010                       | -0.0466 | 0.010                                     | ***** | 0.010                      | 0.2808  |
| 0.020                       | -0.2999 | 0.020                                     | ***** | 0.020                      | -0.0621 |
| 0.040                       | -0.4790 | 0.040                                     | ***** | 0.040                      | -0.2460 |
| 0.060                       | -0.5377 | 0.060                                     | ***** | 0.060                      | -0.3449 |
| 0.080                       | -0.5796 | 0.080                                     | ***** | 0.080                      | -0.3782 |
| 0.100                       | -0.5910 | 0.100                                     | ***** | 0.100                      | -0.4050 |
| 0.125                       | -0.5454 | 0.125                                     | ***** | 0.125                      | -0.4250 |
| 0.150                       | -0.6259 | 0.150                                     | ***** | 0.150                      | -0.4552 |
| 0.175                       | -0.6130 | 0.175                                     | ***** | 0.175                      | -0.4829 |
| 0.200                       | -0.6720 | 0.200                                     | ***** | 0.200                      | -0.4923 |
| 0.250                       | -0.6705 | 0.250                                     | ***** | 0.250                      | -0.5346 |
| 0.300                       | -0.6620 | 0.300                                     | ***** | 0.300                      | -0.5424 |
| 0.350                       | -0.6182 | 0.350                                     | ***** | 0.350                      | -0.5489 |
| 0.400                       | -0.5641 | 0.400                                     | ***** | 0.400                      | -0.5321 |
| 0.450                       | -0.5062 | 0.450                                     | ***** | 0.450                      | -0.5169 |
| 0.500                       | -0.4902 | 0.500                                     | ***** | 0.500                      | -0.4758 |
| 0.550                       | -0.4283 | 0.550                                     | ***** | 0.550                      | -0.4593 |

\*\*\* - no data

|       |        | Lower surface |       |       |         |
|-------|--------|---------------|-------|-------|---------|
| x/c   | Cp     | x/c           | Cp    | x/c   | Cp      |
| 0.005 | 0.3087 | 0.005         | ***** | 0.005 | 0.1825  |
| 0.010 | 0.0330 | 0.010         | ***** | 0.010 | -0.2381 |

Fight 27 Test point 18

Sweep, deg = 20.0 Mach = 0.71 hp, ft = 20000. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 339.1 Rnpu = 3025000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 1.0038  | 0.000                    | ***** | 0.000                      | 1.0357  |
| 0.005                       | 0.2164  | 0.005                    | ***** | 0.005                      | 0.5976  |
| 0.010                       | -0.0642 | 0.010                    | ***** | 0.010                      | 0.3077  |
| 0.020                       | -0.3294 | 0.020                    | ***** | 0.020                      | -0.0533 |
| 0.040                       | -0.5267 | 0.040                    | ***** | 0.040                      | -0.2485 |
| 0.060                       | -0.5820 | 0.060                    | ***** | 0.060                      | -0.3563 |
| 0.080                       | -0.6306 | 0.080                    | ***** | 0.080                      | -0.3906 |
| 0.100                       | -0.6414 | 0.100                    | ***** | 0.100                      | -0.4133 |
| 0.125                       | -0.5910 | 0.125                    | ***** | 0.125                      | -0.4296 |
| 0.150                       | -0.6820 | 0.150                    | ***** | 0.150                      | -0.4683 |
| 0.175                       | -0.6709 | 0.175                    | ***** | 0.175                      | -0.5009 |
| 0.200                       | -0.7353 | 0.200                    | ***** | 0.200                      | -0.5164 |
| 0.250                       | -0.7306 | 0.250                    | ***** | 0.250                      | -0.5667 |
| 0.300                       | -0.7145 | 0.300                    | ***** | 0.300                      | -0.5753 |
| 0.350                       | -0.6469 | 0.350                    | ***** | 0.350                      | -0.5744 |
| 0.400                       | -0.5905 | 0.400                    | ***** | 0.400                      | -0.5606 |
| 0.450                       | -0.5266 | 0.450                    | ***** | 0.450                      | -0.5399 |
| 0.500                       | -0.5029 | 0.500                    | ***** | 0.500                      | -0.4965 |
| 0.550                       | -0.4340 | 0.550                    | ***** | 0.550                      | -0.4668 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |         |
|-------|--------|-------|-------|-------|---------|
| 0.005 | 0.3881 | 0.005 | ***** | 0.005 | 0.2384  |
| 0.010 | 0.1105 | 0.010 | ***** | 0.010 | -0.1960 |

Fight 27 Test point 19

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 20400. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 324.7 Rnpu = 2942000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9428  | 0.000                    | ***** | 0.000                      | 0.9707  |
| 0.005                       | 0.3018  | 0.005                    | ***** | 0.005                      | 0.6144  |
| 0.010                       | 0.0368  | 0.010                    | ***** | 0.010                      | 0.3489  |
| 0.020                       | -0.2168 | 0.020                    | ***** | 0.020                      | 0.0106  |
| 0.040                       | -0.4097 | 0.040                    | ***** | 0.040                      | -0.1840 |
| 0.060                       | -0.4733 | 0.060                    | ***** | 0.060                      | -0.2893 |
| 0.080                       | -0.5177 | 0.080                    | ***** | 0.080                      | -0.3280 |
| 0.100                       | -0.5374 | 0.100                    | ***** | 0.100                      | -0.3557 |
| 0.125                       | -0.5054 | 0.125                    | ***** | 0.125                      | -0.3778 |
| 0.150                       | -0.5831 | 0.150                    | ***** | 0.150                      | -0.4157 |
| 0.175                       | -0.5791 | 0.175                    | ***** | 0.175                      | -0.4439 |
| 0.200                       | -0.6335 | 0.200                    | ***** | 0.200                      | -0.4584 |
| 0.250                       | -0.6399 | 0.250                    | ***** | 0.250                      | -0.5071 |
| 0.300                       | -0.6312 | 0.300                    | ***** | 0.300                      | -0.5108 |
| 0.350                       | -0.5893 | 0.350                    | ***** | 0.350                      | -0.5247 |
| 0.400                       | -0.5476 | 0.400                    | ***** | 0.400                      | -0.5112 |
| 0.450                       | -0.4939 | 0.450                    | ***** | 0.450                      | -0.4955 |
| 0.500                       | -0.4803 | 0.500                    | ***** | 0.500                      | -0.4685 |
| 0.550                       | -0.4210 | 0.550                    | ***** | 0.550                      | -0.4556 |

\*\*\* - no data

Lower surface

|       |         |       |       |       |         |
|-------|---------|-------|-------|-------|---------|
| 0.005 | 0.2304  | 0.005 | ***** | 0.005 | 0.0998  |
| 0.010 | -0.0564 | 0.010 | ***** | 0.010 | -0.3445 |

Flight 27 Test point 20

Sweep, deg = 20.1 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 223.9 Rnpu = 1977000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9717  | 0.000                    | ***** | 0.000                      | 1.0133  |
| 0.005                       | 0.2138  | 0.005                    | ***** | 0.005                      | 0.5212  |
| 0.010                       | -0.0509 | 0.010                    | ***** | 0.010                      | 0.2267  |
| 0.020                       | -0.2978 | 0.020                    | ***** | 0.020                      | -0.1205 |
| 0.040                       | -0.5213 | 0.040                    | ***** | 0.040                      | -0.3143 |
| 0.060                       | -0.5421 | 0.060                    | ***** | 0.060                      | -0.4366 |
| 0.080                       | -0.5853 | 0.080                    | ***** | 0.080                      | -0.4761 |
| 0.100                       | -0.7307 | 0.100                    | ***** | 0.100                      | -0.5148 |
| 0.125                       | -0.6770 | 0.125                    | ***** | 0.125                      | -0.5059 |
| 0.150                       | -0.7594 | 0.150                    | ***** | 0.150                      | -0.5691 |
| 0.175                       | -0.7285 | 0.175                    | ***** | 0.175                      | -0.6036 |
| 0.200                       | -0.8136 | 0.200                    | ***** | 0.200                      | -0.6311 |
| 0.250                       | -0.8986 | 0.250                    | ***** | 0.250                      | -0.7223 |
| 0.300                       | -0.9769 | 0.300                    | ***** | 0.300                      | -0.7804 |
| 0.350                       | -0.9811 | 0.350                    | ***** | 0.350                      | -0.8515 |
| 0.400                       | -0.9855 | 0.400                    | ***** | 0.400                      | -0.8969 |
| 0.450                       | -0.9937 | 0.450                    | ***** | 0.450                      | -0.9425 |
| 0.500                       | -1.0760 | 0.500                    | ***** | 0.500                      | -0.9779 |
| 0.550                       | -0.4497 | 0.550                    | ***** | 0.550                      | -0.6300 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.4415 | 0.005 | ***** | 0.005 | 0.3985 |
| 0.010 | 0.1876 | 0.010 | ***** | 0.010 | 0.0061 |

Fight 27 Test point 21

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 225.0 Rnpu = 1981000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 1.0303  | 0.000                    | ***** | 0.000                      | 1.0776  |
| 0.005                       | 0.2227  | 0.005                    | ***** | 0.005                      | 0.5668  |
| 0.010                       | -0.0501 | 0.010                    | ***** | 0.010                      | 0.2743  |
| 0.020                       | -0.3079 | 0.020                    | ***** | 0.020                      | -0.0861 |
| 0.040                       | -0.5505 | 0.040                    | ***** | 0.040                      | -0.2900 |
| 0.060                       | -0.6018 | 0.060                    | ***** | 0.060                      | -0.4153 |
| 0.080                       | -0.5741 | 0.080                    | ***** | 0.080                      | -0.4562 |
| 0.100                       | -0.6974 | 0.100                    | ***** | 0.100                      | -0.4904 |
| 0.125                       | -0.7295 | 0.125                    | ***** | 0.125                      | -0.5077 |
| 0.150                       | -0.7624 | 0.150                    | ***** | 0.150                      | -0.5408 |
| 0.175                       | -0.7544 | 0.175                    | ***** | 0.175                      | -0.5696 |
| 0.200                       | -0.8304 | 0.200                    | ***** | 0.200                      | -0.6075 |
| 0.250                       | -0.9244 | 0.250                    | ***** | 0.250                      | -0.7085 |
| 0.300                       | -1.0089 | 0.300                    | ***** | 0.300                      | -0.7707 |
| 0.350                       | -1.0139 | 0.350                    | ***** | 0.350                      | -0.8397 |
| 0.400                       | -1.0273 | 0.400                    | ***** | 0.400                      | -0.8819 |
| 0.450                       | -0.7574 | 0.450                    | ***** | 0.450                      | -0.9331 |
| 0.500                       | -0.4803 | 0.500                    | ***** | 0.500                      | -0.9540 |
| 0.550                       | -0.4227 | 0.550                    | ***** | 0.550                      | -0.8506 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.5238 | 0.005 | ***** | 0.005 | 0.4415 |
| 0.010 | 0.2650 | 0.010 | ***** | 0.010 | 0.0434 |



Fight 27 Test point 22

Sweep, deg = 20.0 Mach = 0.81 hp, ft = 34900. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 231.2 Rnpu = 2014000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9787  | 0.000                    | ***** | 0.000                      | 1.0136  |
| 0.005                       | 0.3163  | 0.005                    | ***** | 0.005                      | 0.5961  |
| 0.010                       | 0.0573  | 0.010                    | ***** | 0.010                      | 0.3261  |
| 0.020                       | -0.1929 | 0.020                    | ***** | 0.020                      | -0.0123 |
| 0.040                       | -0.4112 | 0.040                    | ***** | 0.040                      | -0.2203 |
| 0.060                       | -0.4570 | 0.060                    | ***** | 0.060                      | -0.3395 |
| 0.080                       | -0.5316 | 0.080                    | ***** | 0.080                      | -0.3828 |
| 0.100                       | -0.6762 | 0.100                    | ***** | 0.100                      | -0.4207 |
| 0.125                       | -0.5750 | 0.125                    | ***** | 0.125                      | -0.4418 |
| 0.150                       | -0.6345 | 0.150                    | ***** | 0.150                      | -0.5091 |
| 0.175                       | -0.6680 | 0.175                    | ***** | 0.175                      | -0.5376 |
| 0.200                       | -0.7442 | 0.200                    | ***** | 0.200                      | -0.5712 |
| 0.250                       | -0.8381 | 0.250                    | ***** | 0.250                      | -0.6659 |
| 0.300                       | -0.9148 | 0.300                    | ***** | 0.300                      | -0.7150 |
| 0.350                       | -0.9266 | 0.350                    | ***** | 0.350                      | -0.7997 |
| 0.400                       | -0.9335 | 0.400                    | ***** | 0.400                      | -0.8447 |
| 0.450                       | -0.9319 | 0.450                    | ***** | 0.450                      | -0.8980 |
| 0.500                       | -1.0390 | 0.500                    | ***** | 0.500                      | -0.9359 |
| 0.550                       | -0.4722 | 0.550                    | ***** | 0.550                      | -0.7735 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |         |
|-------|--------|-------|-------|-------|---------|
| 0.005 | 0.3728 | 0.005 | ***** | 0.005 | 0.3087  |
| 0.010 | 0.1044 | 0.010 | ***** | 0.010 | -0.1031 |

Flight 27 Test point 23

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 223.1 Rnpu = 1960000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8746  | 0.000                    | ***** | 0.000                      | 0.9118  |
| 0.005                       | 0.0252  | 0.005                    | ***** | 0.005                      | 0.3200  |
| 0.010                       | -0.2292 | 0.010                    | ***** | 0.010                      | 0.0218  |
| 0.020                       | -0.4643 | 0.020                    | ***** | 0.020                      | -0.3264 |
| 0.040                       | -0.6832 | 0.040                    | ***** | 0.040                      | -0.4918 |
| 0.060                       | -0.7206 | 0.060                    | ***** | 0.060                      | -0.6500 |
| 0.080                       | -0.6399 | 0.080                    | ***** | 0.080                      | -0.6028 |
| 0.100                       | -0.7947 | 0.100                    | ***** | 0.100                      | -0.6140 |
| 0.125                       | -0.7111 | 0.125                    | ***** | 0.125                      | -0.6638 |
| 0.150                       | -0.8249 | 0.150                    | ***** | 0.150                      | -0.6979 |
| 0.175                       | -0.8041 | 0.175                    | ***** | 0.175                      | -0.6668 |
| 0.200                       | -0.8779 | 0.200                    | ***** | 0.200                      | -0.6893 |
| 0.250                       | -0.9490 | 0.250                    | ***** | 0.250                      | -0.7821 |
| 0.300                       | -1.0054 | 0.300                    | ***** | 0.300                      | -0.8360 |
| 0.350                       | -0.9936 | 0.350                    | ***** | 0.350                      | -0.9153 |
| 0.400                       | -0.9805 | 0.400                    | ***** | 0.400                      | -0.9514 |
| 0.450                       | -0.9902 | 0.450                    | ***** | 0.450                      | -1.0058 |
| 0.500                       | -0.8066 | 0.500                    | ***** | 0.500                      | -1.0275 |
| 0.550                       | -0.4147 | 0.550                    | ***** | 0.550                      | -0.4487 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.5024 | 0.005 | ***** | 0.005 | 0.4767 |
| 0.010 | 0.2783 | 0.010 | ***** | 0.010 | 0.1484 |

Flight 27 Test point 24

Sweep, deg = 25.3 Mach = 0.81 hp, ft = 35500. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 220.3 Rnpu = 1935000.

| BL 200.8<br>Inboard station |         | Upper surface<br>BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|---|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                                       | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8951  | 0.000                                     | ***** | 0.000                      | 0.9268  |
| 0.005                       | 0.2160  | 0.005                                     | ***** | 0.005                      | 0.4766  |
| 0.010                       | -0.0346 | 0.010                                     | ***** | 0.010                      | 0.2044  |
| 0.020                       | -0.2689 | 0.020                                     | ***** | 0.020                      | -0.1207 |
| 0.040                       | -0.4652 | 0.040                                     | ***** | 0.040                      | -0.3142 |
| 0.060                       | -0.4913 | 0.060                                     | ***** | 0.060                      | -0.4143 |
| 0.080                       | -0.5877 | 0.080                                     | ***** | 0.080                      | -0.4500 |
| 0.100                       | -0.7381 | 0.100                                     | ***** | 0.100                      | -0.4848 |
| 0.125                       | -0.5799 | 0.125                                     | ***** | 0.125                      | -0.4880 |
| 0.150                       | -0.6525 | 0.150                                     | ***** | 0.150                      | -0.5615 |
| 0.175                       | -0.6654 | 0.175                                     | ***** | 0.175                      | -0.5828 |
| 0.200                       | -0.7546 | 0.200                                     | ***** | 0.200                      | -0.6131 |
| 0.250                       | -0.8363 | 0.250                                     | ***** | 0.250                      | -0.6950 |
| 0.300                       | -0.8901 | 0.300                                     | ***** | 0.300                      | -0.7292 |
| 0.350                       | -0.8849 | 0.350                                     | ***** | 0.350                      | -0.8016 |
| 0.400                       | -0.8873 | 0.400                                     | ***** | 0.400                      | -0.8515 |
| 0.450                       | -0.7529 | 0.450                                     | ***** | 0.450                      | -0.9093 |
| 0.500                       | -0.7977 | 0.500                                     | ***** | 0.500                      | -0.9274 |
| 0.550                       | -0.4039 | 0.550                                     | ***** | 0.550                      | -0.4638 |

\*\*\* - no data

|       |        | Lower surface |       |       |         |
|-------|--------|---------------|-------|-------|---------|
| x/c   | Cp     | x/c           | Cp    | x/c   | Cp      |
| 0.005 | 0.3514 | 0.005         | ***** | 0.005 | 0.3199  |
| 0.010 | 0.1016 | 0.010         | ***** | 0.010 | -0.0499 |

Flight 27 Test point 25

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 2.6  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 224.1 Rnpu = 1971000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8656  | 0.000                    | ***** | 0.000                      | 0.9016  |
| 0.005                       | -0.0505 | 0.005                    | ***** | 0.005                      | 0.2543  |
| 0.010                       | -0.3075 | 0.010                    | ***** | 0.010                      | -0.0558 |
| 0.020                       | -0.5442 | 0.020                    | ***** | 0.020                      | -0.4091 |
| 0.040                       | -0.7100 | 0.040                    | ***** | 0.040                      | -0.5593 |
| 0.060                       | -0.7965 | 0.060                    | ***** | 0.060                      | -0.7037 |
| 0.080                       | -0.7785 | 0.080                    | ***** | 0.080                      | -0.7275 |
| 0.100                       | -0.8063 | 0.100                    | ***** | 0.100                      | -0.7298 |
| 0.125                       | -0.7873 | 0.125                    | ***** | 0.125                      | -0.6974 |
| 0.150                       | -0.8902 | 0.150                    | ***** | 0.150                      | -0.7527 |
| 0.175                       | -0.8619 | 0.175                    | ***** | 0.175                      | -0.7708 |
| 0.200                       | -0.9381 | 0.200                    | ***** | 0.200                      | -0.7498 |
| 0.250                       | -1.0081 | 0.250                    | ***** | 0.250                      | -0.8259 |
| 0.300                       | -1.0745 | 0.300                    | ***** | 0.300                      | -0.8701 |
| 0.350                       | -1.0516 | 0.350                    | ***** | 0.350                      | -0.9474 |
| 0.400                       | -1.0346 | 0.400                    | ***** | 0.400                      | -0.9849 |
| 0.450                       | -1.0274 | 0.450                    | ***** | 0.450                      | -1.0474 |
| 0.500                       | -0.8220 | 0.500                    | ***** | 0.500                      | -1.0668 |
| 0.550                       | -0.4462 | 0.550                    | ***** | 0.550                      | -0.4494 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.5638 | 0.005 | ***** | 0.005 | 0.5372 |
| 0.010 | 0.3450 | 0.010 | ***** | 0.010 | 0.2245 |

Fight 27 Test point 26

Sweep, deg = 30.4 Mach = 0.81 hp, ft = 35000. Angle of attack, deg = 2.1  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 225.7 R<sub>npu</sub> = 1990000.

Upper surface

| BL 200.8<br>Inboard station |                | BL 260<br>Middle station |                | BL 320<br>Outboard station |                |
|-----------------------------|----------------|--------------------------|----------------|----------------------------|----------------|
| x/c                         | C <sub>p</sub> | x/c                      | C <sub>p</sub> | x/c                        | C <sub>p</sub> |
| 0.000                       | 0.7791         | 0.000                    | *****          | 0.000                      | 0.8041         |
| 0.005                       | -0.0769        | 0.005                    | *****          | 0.005                      | 0.1791         |
| 0.010                       | -0.3147        | 0.010                    | *****          | 0.010                      | -0.1107        |
| 0.020                       | -0.5290        | 0.020                    | *****          | 0.020                      | -0.4324        |
| 0.040                       | -0.7037        | 0.040                    | *****          | 0.040                      | -0.5709        |
| 0.060                       | -0.7529        | 0.060                    | *****          | 0.060                      | -0.6954        |
| 0.080                       | -0.6197        | 0.080                    | *****          | 0.080                      | -0.6864        |
| 0.100                       | -0.8256        | 0.100                    | *****          | 0.100                      | -0.6694        |
| 0.125                       | -0.6971        | 0.125                    | *****          | 0.125                      | -0.6800        |
| 0.150                       | -0.7809        | 0.150                    | *****          | 0.150                      | -0.6522        |
| 0.175                       | -0.7677        | 0.175                    | *****          | 0.175                      | -0.6868        |
| 0.200                       | -0.8620        | 0.200                    | *****          | 0.200                      | -0.7047        |
| 0.250                       | -0.9096        | 0.250                    | *****          | 0.250                      | -0.7914        |
| 0.300                       | -0.9712        | 0.300                    | *****          | 0.300                      | -0.8384        |
| 0.350                       | -0.9254        | 0.350                    | *****          | 0.350                      | -0.8866        |
| 0.400                       | -0.7529        | 0.400                    | *****          | 0.400                      | -0.9219        |
| 0.450                       | -0.7567        | 0.450                    | *****          | 0.450                      | -0.9736        |
| 0.500                       | -0.5152        | 0.500                    | *****          | 0.500                      | -0.5932        |
| 0.550                       | -0.3997        | 0.550                    | *****          | 0.550                      | -0.3476        |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.4829 | 0.005 | ***** | 0.005 | 0.4902 |
| 0.010 | 0.2781 | 0.010 | ***** | 0.010 | 0.2029 |

Flight 27 Test point 27

Sweep, deg = 30.4 Mach = 0.80 hp, ft = 35100. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.6 QBAR, lb/ft<sup>2</sup> = 220.2 Rnpu = 1957000.

| BL 200.8<br>Inboard station |         | Upper surface<br>BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|---|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                                       | Cp    | x/c                        | Cp      |
| 0.000                       | 0.7923  | 0.000                                     | ***** | 0.000                      | 0.8238  |
| 0.005                       | 0.0643  | 0.005                                     | ***** | 0.005                      | 0.3193  |
| 0.010                       | -0.1631 | 0.010                                     | ***** | 0.010                      | 0.0515  |
| 0.020                       | -0.3794 | 0.020                                     | ***** | 0.020                      | -0.2589 |
| 0.040                       | -0.5404 | 0.040                                     | ***** | 0.040                      | -0.4169 |
| 0.060                       | -0.5383 | 0.060                                     | ***** | 0.060                      | -0.4938 |
| 0.080                       | -0.6396 | 0.080                                     | ***** | 0.080                      | -0.5197 |
| 0.100                       | -0.7879 | 0.100                                     | ***** | 0.100                      | -0.5561 |
| 0.125                       | -0.5971 | 0.125                                     | ***** | 0.125                      | -0.5366 |
| 0.150                       | -0.6556 | 0.150                                     | ***** | 0.150                      | -0.5911 |
| 0.175                       | -0.6680 | 0.175                                     | ***** | 0.175                      | -0.6305 |
| 0.200                       | -0.7295 | 0.200                                     | ***** | 0.200                      | -0.6377 |
| 0.250                       | -0.7210 | 0.250                                     | ***** | 0.250                      | -0.6831 |
| 0.300                       | -0.7640 | 0.300                                     | ***** | 0.300                      | -0.7103 |
| 0.350                       | -0.7524 | 0.350                                     | ***** | 0.350                      | -0.7692 |
| 0.400                       | -0.7253 | 0.400                                     | ***** | 0.400                      | -0.6854 |
| 0.450                       | -0.5741 | 0.450                                     | ***** | 0.450                      | -0.4376 |
| 0.500                       | -0.4724 | 0.500                                     | ***** | 0.500                      | -0.4281 |
| 0.550                       | -0.4082 | 0.550                                     | ***** | 0.550                      | -0.4086 |

\*\*\* - no data

|       |        | Lower surface |       |       |        |
|-------|--------|---------------|-------|-------|--------|
| x/c   | Cp     | x/c           | Cp    | x/c   | Cp     |
| 0.005 | 0.3679 | 0.005         | ***** | 0.005 | 0.3520 |
| 0.010 | 0.1459 | 0.010         | ***** | 0.010 | 0.0379 |

Flight 27 Test point 28

Sweep, deg = 34.9 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 2.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 225.3 Rnpu = 1971000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.6766  | 0.000                    | ***** | 0.000                      | 0.7073  |
| 0.005                       | -0.1582 | 0.005                    | ***** | 0.005                      | 0.0735  |
| 0.010                       | -0.3765 | 0.010                    | ***** | 0.010                      | -0.2062 |
| 0.020                       | -0.5756 | 0.020                    | ***** | 0.020                      | -0.5054 |
| 0.040                       | -0.7393 | 0.040                    | ***** | 0.040                      | -0.6134 |
| 0.060                       | -0.7496 | 0.060                    | ***** | 0.060                      | -0.7315 |
| 0.080                       | -0.6731 | 0.080                    | ***** | 0.080                      | -0.6910 |
| 0.100                       | -0.8406 | 0.100                    | ***** | 0.100                      | -0.6670 |
| 0.125                       | -0.6964 | 0.125                    | ***** | 0.125                      | -0.7136 |
| 0.150                       | -0.7562 | 0.150                    | ***** | 0.150                      | -0.6766 |
| 0.175                       | -0.7466 | 0.175                    | ***** | 0.175                      | -0.7095 |
| 0.200                       | -0.8147 | 0.200                    | ***** | 0.200                      | -0.7195 |
| 0.250                       | -0.7066 | 0.250                    | ***** | 0.250                      | -0.7758 |
| 0.300                       | -0.7733 | 0.300                    | ***** | 0.300                      | -0.7766 |
| 0.350                       | -0.7469 | 0.350                    | ***** | 0.350                      | -0.7954 |
| 0.400                       | -0.7347 | 0.400                    | ***** | 0.400                      | -0.4524 |
| 0.450                       | -0.5253 | 0.450                    | ***** | 0.450                      | -0.4450 |
| 0.500                       | -0.4658 | 0.500                    | ***** | 0.500                      | -0.4090 |
| 0.550                       | -0.3993 | 0.550                    | ***** | 0.550                      | -0.4022 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.4542 | 0.005 | ***** | 0.005 | 0.4776 |
| 0.010 | 0.2729 | 0.010 | ***** | 0.010 | 0.2314 |

Fight 27 Test point 29

Sweep, deg = 34.8 Mach = 0.79 hp, ft = 35300. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft2 = 216.9 Rnpu = 1926000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.7161  | 0.000                    | ***** | 0.000                      | 0.7464  |
| 0.005                       | 0.0313  | 0.005                    | ***** | 0.005                      | 0.2639  |
| 0.010                       | -0.1803 | 0.010                    | ***** | 0.010                      | 0.0071  |
| 0.020                       | -0.3683 | 0.020                    | ***** | 0.020                      | -0.2667 |
| 0.040                       | -0.4950 | 0.040                    | ***** | 0.040                      | -0.4090 |
| 0.060                       | -0.5157 | 0.060                    | ***** | 0.060                      | -0.4703 |
| 0.080                       | -0.6645 | 0.080                    | ***** | 0.080                      | -0.4807 |
| 0.100                       | -0.5450 | 0.100                    | ***** | 0.100                      | -0.4917 |
| 0.125                       | -0.5028 | 0.125                    | ***** | 0.125                      | -0.4889 |
| 0.150                       | -0.6202 | 0.150                    | ***** | 0.150                      | -0.5269 |
| 0.175                       | -0.5877 | 0.175                    | ***** | 0.175                      | -0.5448 |
| 0.200                       | -0.6539 | 0.200                    | ***** | 0.200                      | -0.5411 |
| 0.250                       | -0.6674 | 0.250                    | ***** | 0.250                      | -0.5802 |
| 0.300                       | -0.6618 | 0.300                    | ***** | 0.300                      | -0.5393 |
| 0.350                       | -0.6280 | 0.350                    | ***** | 0.350                      | -0.5532 |
| 0.400                       | -0.5540 | 0.400                    | ***** | 0.400                      | -0.5041 |
| 0.450                       | -0.4754 | 0.450                    | ***** | 0.450                      | -0.4678 |
| 0.500                       | -0.4522 | 0.500                    | ***** | 0.500                      | -0.4127 |
| 0.550                       | -0.3866 | 0.550                    | ***** | 0.550                      | -0.3993 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.3213 | 0.005 | ***** | 0.005 | 0.3218 |
| 0.010 | 0.1200 | 0.010 | ***** | 0.010 | 0.0226 |



Flight 27 Test point 30

Sweep, deg = 34.8 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 224.9 Rnpu = 1979000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.6944  | 0.000                    | ***** | 0.000                      | 0.7219  |
| 0.005                       | -0.1033 | 0.005                    | ***** | 0.005                      | 0.1221  |
| 0.010                       | -0.3270 | 0.010                    | ***** | 0.010                      | -0.1538 |
| 0.020                       | -0.5177 | 0.020                    | ***** | 0.020                      | -0.4396 |
| 0.040                       | -0.6957 | 0.040                    | ***** | 0.040                      | -0.5627 |
| 0.060                       | -0.5626 | 0.060                    | ***** | 0.060                      | -0.6913 |
| 0.080                       | -0.6814 | 0.080                    | ***** | 0.080                      | -0.6371 |
| 0.100                       | -0.8118 | 0.100                    | ***** | 0.100                      | -0.6320 |
| 0.125                       | -0.6747 | 0.125                    | ***** | 0.125                      | -0.6400 |
| 0.150                       | -0.7313 | 0.150                    | ***** | 0.150                      | -0.6526 |
| 0.175                       | -0.7122 | 0.175                    | ***** | 0.175                      | -0.6918 |
| 0.200                       | -0.6694 | 0.200                    | ***** | 0.200                      | -0.6906 |
| 0.250                       | -0.7433 | 0.250                    | ***** | 0.250                      | -0.7166 |
| 0.300                       | -0.7639 | 0.300                    | ***** | 0.300                      | -0.7215 |
| 0.350                       | -0.7409 | 0.350                    | ***** | 0.350                      | -0.7160 |
| 0.400                       | -0.7146 | 0.400                    | ***** | 0.400                      | -0.4832 |
| 0.450                       | -0.5114 | 0.450                    | ***** | 0.450                      | -0.4676 |
| 0.500                       | -0.4619 | 0.500                    | ***** | 0.500                      | -0.4163 |
| 0.550                       | -0.3986 | 0.550                    | ***** | 0.550                      | -0.3953 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.4226 | 0.005 | ***** | 0.005 | 0.4373 |
| 0.010 | 0.2385 | 0.010 | ***** | 0.010 | 0.1857 |

Fight 27 Test point 31

Sweep, deg = 34.8 Mach = 0.83 hp, ft = 35000. Angle of attack, deg = 2.2  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 239.0 Rnpu = 2036000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.6971  | 0.000                    | ***** | 0.000                      | 0.7150  |
| 0.005                       | -0.1198 | 0.005                    | ***** | 0.005                      | 0.0971  |
| 0.010                       | -0.3282 | 0.010                    | ***** | 0.010                      | -0.1810 |
| 0.020                       | -0.5307 | 0.020                    | ***** | 0.020                      | -0.4808 |
| 0.040                       | -0.6875 | 0.040                    | ***** | 0.040                      | -0.5770 |
| 0.060                       | -0.7180 | 0.060                    | ***** | 0.060                      | -0.7303 |
| 0.080                       | -0.6362 | 0.080                    | ***** | 0.080                      | -0.7124 |
| 0.100                       | -0.7944 | 0.100                    | ***** | 0.100                      | -0.6858 |
| 0.125                       | -0.6710 | 0.125                    | ***** | 0.125                      | -0.6778 |
| 0.150                       | -0.7509 | 0.150                    | ***** | 0.150                      | -0.7391 |
| 0.175                       | -0.7325 | 0.175                    | ***** | 0.175                      | -0.7299 |
| 0.200                       | -0.8334 | 0.200                    | ***** | 0.200                      | -0.7251 |
| 0.250                       | -0.8721 | 0.250                    | ***** | 0.250                      | -0.7784 |
| 0.300                       | -0.9001 | 0.300                    | ***** | 0.300                      | -0.8179 |
| 0.350                       | -0.7108 | 0.350                    | ***** | 0.350                      | -0.8502 |
| 0.400                       | -0.7272 | 0.400                    | ***** | 0.400                      | -0.8856 |
| 0.450                       | -0.7506 | 0.450                    | ***** | 0.450                      | -0.9267 |
| 0.500                       | -0.7941 | 0.500                    | ***** | 0.500                      | -0.4986 |
| 0.550                       | -0.3765 | 0.550                    | ***** | 0.550                      | -0.3320 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.4532 | 0.005 | ***** | 0.005 | 0.4735 |
| 0.010 | 0.2717 | 0.010 | ***** | 0.010 | 0.2319 |

Flight 27 Test point 32

Sweep, deg = 30.1 Mach = 0.83 hp, ft = 35000. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 237.6 Rnpu = 2036000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8090  | 0.000                    | ***** | 0.000                      | 0.8405  |
| 0.005                       | 0.1035  | 0.005                    | ***** | 0.005                      | 0.3440  |
| 0.010                       | -0.1318 | 0.010                    | ***** | 0.010                      | 0.0795  |
| 0.020                       | -0.3402 | 0.020                    | ***** | 0.020                      | -0.2309 |
| 0.040                       | -0.5471 | 0.040                    | ***** | 0.040                      | -0.3870 |
| 0.060                       | -0.4932 | 0.060                    | ***** | 0.060                      | -0.4834 |
| 0.080                       | -0.5813 | 0.080                    | ***** | 0.080                      | -0.5016 |
| 0.100                       | -0.7432 | 0.100                    | ***** | 0.100                      | -0.5276 |
| 0.125                       | -0.6180 | 0.125                    | ***** | 0.125                      | -0.5552 |
| 0.150                       | -0.6858 | 0.150                    | ***** | 0.150                      | -0.5688 |
| 0.175                       | -0.6799 | 0.175                    | ***** | 0.175                      | -0.6142 |
| 0.200                       | -0.7631 | 0.200                    | ***** | 0.200                      | -0.6391 |
| 0.250                       | -0.8291 | 0.250                    | ***** | 0.250                      | -0.7117 |
| 0.300                       | -0.8747 | 0.300                    | ***** | 0.300                      | -0.7575 |
| 0.350                       | -0.8660 | 0.350                    | ***** | 0.350                      | -0.8145 |
| 0.400                       | -0.7781 | 0.400                    | ***** | 0.400                      | -0.8516 |
| 0.450                       | -0.7335 | 0.450                    | ***** | 0.450                      | -0.9057 |
| 0.500                       | -0.8007 | 0.500                    | ***** | 0.500                      | -0.9337 |
| 0.550                       | -0.4872 | 0.550                    | ***** | 0.550                      | -0.4348 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.3793 | 0.005 | ***** | 0.005 | 0.3660 |
| 0.010 | 0.1580 | 0.010 | ***** | 0.010 | 0.0526 |

Fight 27 Test point 33

Sweep, deg = 20.1 Mach = 0.75 hp, ft = 25000. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 311.9 Rnpu = 2743000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9605  | 0.000                    | ***** | 0.000                      | 0.9988  |
| 0.005                       | 0.2228  | 0.005                    | ***** | 0.005                      | 0.5300  |
| 0.010                       | -0.0459 | 0.010                    | ***** | 0.010                      | 0.2465  |
| 0.020                       | -0.3061 | 0.020                    | ***** | 0.020                      | -0.1049 |
| 0.040                       | -0.5091 | 0.040                    | ***** | 0.040                      | -0.2995 |
| 0.060                       | -0.5601 | 0.060                    | ***** | 0.060                      | -0.4114 |
| 0.080                       | -0.6510 | 0.080                    | ***** | 0.080                      | -0.4511 |
| 0.100                       | -0.7004 | 0.100                    | ***** | 0.100                      | -0.4767 |
| 0.125                       | -0.5924 | 0.125                    | ***** | 0.125                      | -0.4942 |
| 0.150                       | -0.7080 | 0.150                    | ***** | 0.150                      | -0.5435 |
| 0.175                       | -0.7260 | 0.175                    | ***** | 0.175                      | -0.5830 |
| 0.200                       | -0.8060 | 0.200                    | ***** | 0.200                      | -0.5983 |
| 0.250                       | -0.8659 | 0.250                    | ***** | 0.250                      | -0.6786 |
| 0.300                       | -0.8824 | 0.300                    | ***** | 0.300                      | -0.6920 |
| 0.350                       | -0.7691 | 0.350                    | ***** | 0.350                      | -0.7524 |
| 0.400                       | -0.6642 | 0.400                    | ***** | 0.400                      | -0.6062 |
| 0.450                       | -0.5617 | 0.450                    | ***** | 0.450                      | -0.5903 |
| 0.500                       | -0.5307 | 0.500                    | ***** | 0.500                      | -0.5229 |
| 0.550                       | -0.4480 | 0.550                    | ***** | 0.550                      | -0.4673 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |         |
|-------|--------|-------|-------|-------|---------|
| 0.005 | 0.3734 | 0.005 | ***** | 0.005 | 0.2950  |
| 0.010 | 0.0960 | 0.010 | ***** | 0.010 | -0.1098 |

Flight 28 Test point 1

Sweep, deg = 20.1 Mach = 0.80 hp, ft = 34900. Angle of attack, deg = 2.2  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 224.2 Rnpu = 2026000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9654  | 0.000                    | ***** | 0.000                      | 1.0100  |
| 0.005                       | 0.1131  | 0.005                    | ***** | 0.005                      | 0.4311  |
| 0.010                       | -0.1551 | 0.010                    | ***** | 0.010                      | 0.1333  |
| 0.020                       | -0.4056 | 0.020                    | ***** | 0.020                      | -0.2300 |
| 0.040                       | -0.6359 | 0.040                    | ***** | 0.040                      | -0.4153 |
| 0.060                       | -0.6881 | 0.060                    | ***** | 0.060                      | -0.5789 |
| 0.080                       | -0.7091 | 0.080                    | ***** | 0.080                      | -0.5683 |
| 0.100                       | -0.7263 | 0.100                    | ***** | 0.100                      | -0.5840 |
| 0.125                       | -0.7069 | 0.125                    | ***** | 0.125                      | -0.6134 |
| 0.150                       | -0.8255 | 0.150                    | ***** | 0.150                      | -0.6813 |
| 0.175                       | -0.8122 | 0.175                    | ***** | 0.175                      | -0.6482 |
| 0.200                       | -0.8756 | 0.200                    | ***** | 0.200                      | -0.6768 |
| 0.250                       | -0.9746 | 0.250                    | ***** | 0.250                      | -0.7654 |
| 0.300                       | -1.0538 | 0.300                    | ***** | 0.300                      | -0.8271 |
| 0.350                       | -1.0472 | 0.350                    | ***** | 0.350                      | -0.9136 |
| 0.400                       | -1.0573 | 0.400                    | ***** | 0.400                      | -0.9584 |
| 0.450                       | -0.7926 | 0.450                    | ***** | 0.450                      | -1.0042 |
| 0.500                       | -0.5381 | 0.500                    | ***** | 0.500                      | -1.0262 |
| 0.550                       | -0.4697 | 0.550                    | ***** | 0.550                      | -0.8399 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.5344 | 0.005 | ***** | 0.005 | 0.4842 |
| 0.010 | 0.2887 | 0.010 | ***** | 0.010 | 0.1163 |

Fight 28 Test point 2

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 34800. Angle of attack, deg = 2.5  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 225.4 Rnpu = 2032000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 1.0250  | 0.000                    | ***** | 0.000                      | 1.0682  |
| 0.005                       | 0.1529  | 0.005                    | ***** | 0.005                      | 0.5002  |
| 0.010                       | -0.1278 | 0.010                    | ***** | 0.010                      | 0.1946  |
| 0.020                       | -0.3784 | 0.020                    | ***** | 0.020                      | -0.1733 |
| 0.040                       | -0.6115 | 0.040                    | ***** | 0.040                      | -0.3642 |
| 0.060                       | -0.6639 | 0.060                    | ***** | 0.060                      | -0.5026 |
| 0.080                       | -0.7297 | 0.080                    | ***** | 0.080                      | -0.5224 |
| 0.100                       | -0.6890 | 0.100                    | ***** | 0.100                      | -0.5551 |
| 0.125                       | -0.7025 | 0.125                    | ***** | 0.125                      | -0.5707 |
| 0.150                       | -0.7947 | 0.150                    | ***** | 0.150                      | -0.6334 |
| 0.175                       | -0.8103 | 0.175                    | ***** | 0.175                      | -0.6222 |
| 0.200                       | -0.8827 | 0.200                    | ***** | 0.200                      | -0.6382 |
| 0.250                       | -0.9774 | 0.250                    | ***** | 0.250                      | -0.7410 |
| 0.300                       | -1.0638 | 0.300                    | ***** | 0.300                      | -0.7989 |
| 0.350                       | -1.0549 | 0.350                    | ***** | 0.350                      | -0.8876 |
| 0.400                       | -0.7876 | 0.400                    | ***** | 0.400                      | -0.9277 |
| 0.450                       | -0.4844 | 0.450                    | ***** | 0.450                      | -0.9834 |
| 0.500                       | -0.4768 | 0.500                    | ***** | 0.500                      | -0.9959 |
| 0.550                       | -0.4238 | 0.550                    | ***** | 0.550                      | -0.9423 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.5816 | 0.005 | ***** | 0.005 | 0.5067 |
| 0.010 | 0.3314 | 0.010 | ***** | 0.010 | 0.1283 |

Flight 28 Test point 3

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 34400. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 230.9 Rnpu = 2072000.

| Upper surface               |         |                          |       |                            |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9817  | 0.000                    | ***** | 0.000                      | 1.0152  |
| 0.005                       | 0.3315  | 0.005                    | ***** | 0.005                      | 0.6011  |
| 0.010                       | 0.0691  | 0.010                    | ***** | 0.010                      | 0.3309  |
| 0.020                       | -0.1859 | 0.020                    | ***** | 0.020                      | -0.0117 |
| 0.040                       | -0.4084 | 0.040                    | ***** | 0.040                      | -0.2165 |
| 0.060                       | -0.4711 | 0.060                    | ***** | 0.060                      | -0.3352 |
| 0.080                       | -0.5394 | 0.080                    | ***** | 0.080                      | -0.3844 |
| 0.100                       | -0.6631 | 0.100                    | ***** | 0.100                      | -0.4157 |
| 0.125                       | -0.5366 | 0.125                    | ***** | 0.125                      | -0.4425 |
| 0.150                       | -0.6474 | 0.150                    | ***** | 0.150                      | -0.4930 |
| 0.175                       | -0.6496 | 0.175                    | ***** | 0.175                      | -0.5485 |
| 0.200                       | -0.7619 | 0.200                    | ***** | 0.200                      | -0.5801 |
| 0.250                       | -0.8519 | 0.250                    | ***** | 0.250                      | -0.6658 |
| 0.300                       | -0.9235 | 0.300                    | ***** | 0.300                      | -0.7155 |
| 0.350                       | -0.9276 | 0.350                    | ***** | 0.350                      | -0.8042 |
| 0.400                       | -0.9186 | 0.400                    | ***** | 0.400                      | -0.8482 |
| 0.450                       | -0.9366 | 0.450                    | ***** | 0.450                      | -0.8969 |
| 0.500                       | -1.0528 | 0.500                    | ***** | 0.500                      | -0.9291 |
| 0.550                       | -0.5111 | 0.550                    | ***** | 0.550                      | -0.8920 |

\*\*\* - no data

| Lower surface |        |       |       |       |         |
|---------------|--------|-------|-------|-------|---------|
| 0.005         | 0.3486 | 0.005 | ***** | 0.005 | 0.2870  |
| 0.010         | 0.0748 | 0.010 | ***** | 0.010 | -0.1295 |

Fight 28 Test point 4

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 33700. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 238.0 Rnpu = 2128000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9793  | 0.000                    | ***** | 0.000                      | 1.0151  |
| 0.005                       | 0.2013  | 0.005                    | ***** | 0.005                      | 0.5041  |
| 0.010                       | -0.0625 | 0.010                    | ***** | 0.010                      | 0.2208  |
| 0.020                       | -0.3165 | 0.020                    | ***** | 0.020                      | -0.1352 |
| 0.040                       | -0.5749 | 0.040                    | ***** | 0.040                      | -0.3284 |
| 0.060                       | -0.6268 | 0.060                    | ***** | 0.060                      | -0.4492 |
| 0.080                       | -0.5781 | 0.080                    | ***** | 0.080                      | -0.4817 |
| 0.100                       | -0.7237 | 0.100                    | ***** | 0.100                      | -0.5219 |
| 0.125                       | -0.6539 | 0.125                    | ***** | 0.125                      | -0.5090 |
| 0.150                       | -0.7798 | 0.150                    | ***** | 0.150                      | -0.5756 |
| 0.175                       | -0.7466 | 0.175                    | ***** | 0.175                      | -0.6176 |
| 0.200                       | -0.8189 | 0.200                    | ***** | 0.200                      | -0.6425 |
| 0.250                       | -0.9289 | 0.250                    | ***** | 0.250                      | -0.7331 |
| 0.300                       | -1.0065 | 0.300                    | ***** | 0.300                      | -0.7892 |
| 0.350                       | -1.0061 | 0.350                    | ***** | 0.350                      | -0.8706 |
| 0.400                       | -1.0038 | 0.400                    | ***** | 0.400                      | -0.9081 |
| 0.450                       | -1.0032 | 0.450                    | ***** | 0.450                      | -0.9661 |
| 0.500                       | -1.0264 | 0.500                    | ***** | 0.500                      | -0.9939 |
| 0.550                       | -0.4509 | 0.550                    | ***** | 0.550                      | -0.9024 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.4636 | 0.005 | ***** | 0.005 | 0.4034 |
| 0.010 | 0.2081 | 0.010 | ***** | 0.010 | 0.0186 |



Fight 28 Test point 5

Sweep, deg = 25.4 Mach = 0.81 hp, ft = 35000. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 225.6 Rnpu = 2034000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8855  | 0.000                    | ***** | 0.000                      | 0.9181  |
| 0.005                       | 0.0624  | 0.005                    | ***** | 0.005                      | 0.3413  |
| 0.010                       | -0.1887 | 0.010                    | ***** | 0.010                      | 0.0562  |
| 0.020                       | -0.4332 | 0.020                    | ***** | 0.020                      | -0.2839 |
| 0.040                       | -0.6646 | 0.040                    | ***** | 0.040                      | -0.4539 |
| 0.060                       | -0.6884 | 0.060                    | ***** | 0.060                      | -0.6230 |
| 0.080                       | -0.6432 | 0.080                    | ***** | 0.080                      | -0.5844 |
| 0.100                       | -0.7553 | 0.100                    | ***** | 0.100                      | -0.6080 |
| 0.125                       | -0.6651 | 0.125                    | ***** | 0.125                      | -0.6509 |
| 0.150                       | -0.7929 | 0.150                    | ***** | 0.150                      | -0.6332 |
| 0.175                       | -0.7829 | 0.175                    | ***** | 0.175                      | -0.6437 |
| 0.200                       | -0.8519 | 0.200                    | ***** | 0.200                      | -0.6777 |
| 0.250                       | -0.9322 | 0.250                    | ***** | 0.250                      | -0.7701 |
| 0.300                       | -0.9881 | 0.300                    | ***** | 0.300                      | -0.8255 |
| 0.350                       | -0.9822 | 0.350                    | ***** | 0.350                      | -0.9050 |
| 0.400                       | -0.9765 | 0.400                    | ***** | 0.400                      | -0.9456 |
| 0.450                       | -0.9861 | 0.450                    | ***** | 0.450                      | -0.9922 |
| 0.500                       | -1.0746 | 0.500                    | ***** | 0.500                      | -1.0237 |
| 0.550                       | -0.4413 | 0.550                    | ***** | 0.550                      | -0.4511 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.4859 | 0.005 | ***** | 0.005 | 0.4564 |
| 0.010 | 0.2572 | 0.010 | ***** | 0.010 | 0.1213 |

Fight 28 Test point 6

Sweep, deg = 25.4 Mach = 0.80 hp, ft = 35100. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 223.5 Rnpu = 2021000.

| Upper surface               |         |                          |       |                            |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8349  | 0.000                    | ***** | 0.000                      | 0.8680  |
| 0.005                       | 0.1541  | 0.005                    | ***** | 0.005                      | 0.4108  |
| 0.010                       | -0.0958 | 0.010                    | ***** | 0.010                      | 0.1409  |
| 0.020                       | -0.3289 | 0.020                    | ***** | 0.020                      | -0.1870 |
| 0.040                       | -0.5314 | 0.040                    | ***** | 0.040                      | -0.3689 |
| 0.060                       | -0.5640 | 0.060                    | ***** | 0.060                      | -0.4735 |
| 0.080                       | -0.6459 | 0.080                    | ***** | 0.080                      | -0.5115 |
| 0.100                       | -0.7560 | 0.100                    | ***** | 0.100                      | -0.5441 |
| 0.125                       | -0.6270 | 0.125                    | ***** | 0.125                      | -0.5612 |
| 0.150                       | -0.7112 | 0.150                    | ***** | 0.150                      | -0.6263 |
| 0.175                       | -0.7049 | 0.175                    | ***** | 0.175                      | -0.6561 |
| 0.200                       | -0.8326 | 0.200                    | ***** | 0.200                      | -0.6853 |
| 0.250                       | -0.9027 | 0.250                    | ***** | 0.250                      | -0.7634 |
| 0.300                       | -0.9628 | 0.300                    | ***** | 0.300                      | -0.7924 |
| 0.350                       | -0.9507 | 0.350                    | ***** | 0.350                      | -0.8634 |
| 0.400                       | -0.9464 | 0.400                    | ***** | 0.400                      | -0.9042 |
| 0.450                       | -0.8053 | 0.450                    | ***** | 0.450                      | -0.9660 |
| 0.500                       | -0.8561 | 0.500                    | ***** | 0.500                      | -0.9779 |
| 0.550                       | -0.4585 | 0.550                    | ***** | 0.550                      | -0.5109 |

\*\*\* - no data

| Lower surface |        |       |       |       |         |
|---------------|--------|-------|-------|-------|---------|
| 0.005         | 0.2881 | 0.005 | ***** | 0.005 | 0.2535  |
| 0.010         | 0.0400 | 0.010 | ***** | 0.010 | -0.1198 |

Fight 28 Test point 7

Sweep, deg = 25.4 Mach = 0.28 hp, ft = 26200. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 40.9 Rnpu = 913000.

| Upper surface               |          |                          |       |                            |          |
|-----------------------------|----------|--------------------------|-------|----------------------------|----------|
| BL 200.8<br>Inboard station |          | BL 260<br>Middle station |       | BL 320<br>Outboard station |          |
| x/c                         | Cp       | x/c                      | Cp    | x/c                        | Cp       |
| 0.000                       | -0.6247  | 0.000                    | ***** | 0.000                      | -0.4189  |
| 0.005                       | -5.1967  | 0.005                    | ***** | 0.005                      | -3.6179  |
| 0.010                       | -6.6362  | 0.010                    | ***** | 0.010                      | -5.2626  |
| 0.020                       | -8.0069  | 0.020                    | ***** | 0.020                      | -7.1422  |
| 0.040                       | -9.3725  | 0.040                    | ***** | 0.040                      | -8.1309  |
| 0.060                       | -9.4921  | 0.060                    | ***** | 0.060                      | -8.9731  |
| 0.080                       | -9.1347  | 0.080                    | ***** | 0.080                      | -8.9087  |
| 0.100                       | -9.9499  | 0.100                    | ***** | 0.100                      | -9.0308  |
| 0.125                       | -9.4095  | 0.125                    | ***** | 0.125                      | -9.2567  |
| 0.150                       | -10.0896 | 0.150                    | ***** | 0.150                      | -8.9995  |
| 0.175                       | -10.0252 | 0.175                    | ***** | 0.175                      | -9.3653  |
| 0.200                       | -10.5024 | 0.200                    | ***** | 0.200                      | -9.5680  |
| 0.250                       | -10.9083 | 0.250                    | ***** | 0.250                      | -10.0587 |
| 0.300                       | -11.2431 | 0.300                    | ***** | 0.300                      | -10.3245 |
| 0.350                       | -11.1642 | 0.350                    | ***** | 0.350                      | -10.7738 |
| 0.400                       | -11.1714 | 0.400                    | ***** | 0.400                      | -10.9444 |
| 0.450                       | -11.2066 | 0.450                    | ***** | 0.450                      | -11.2534 |
| 0.500                       | -11.5087 | 0.500                    | ***** | 0.500                      | -11.4019 |
| 0.550                       | -8.0808  | 0.550                    | ***** | 0.550                      | -8.2593  |

\*\*\* - no data

| Lower surface |         |       |       |       |         |
|---------------|---------|-------|-------|-------|---------|
| 0.005         | -2.9949 | 0.005 | ***** | 0.005 | -3.1662 |
| 0.010         | -4.2904 | 0.010 | ***** | 0.010 | -5.0944 |

Fight 28 Test point 8

Sweep, deg = 30.0 Mach = 0.80 hp, ft = 34900. Angle of attack, deg = 2.5  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 223.1 Rnpd = 2021000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.7676  | 0.000                    | ***** | 0.000                      | 0.8010  |
| 0.005                       | -0.1494 | 0.005                    | ***** | 0.005                      | 0.1149  |
| 0.010                       | -0.3901 | 0.010                    | ***** | 0.010                      | -0.1801 |
| 0.020                       | -0.6078 | 0.020                    | ***** | 0.020                      | -0.5206 |
| 0.040                       | -0.7617 | 0.040                    | ***** | 0.040                      | -0.6357 |
| 0.060                       | -0.8250 | 0.060                    | ***** | 0.060                      | -0.7699 |
| 0.080                       | -0.8153 | 0.080                    | ***** | 0.080                      | -0.7926 |
| 0.100                       | -0.8445 | 0.100                    | ***** | 0.100                      | -0.8003 |
| 0.125                       | -0.7358 | 0.125                    | ***** | 0.125                      | -0.7274 |
| 0.150                       | -0.8387 | 0.150                    | ***** | 0.150                      | -0.7658 |
| 0.175                       | -0.8122 | 0.175                    | ***** | 0.175                      | -0.7984 |
| 0.200                       | -0.9139 | 0.200                    | ***** | 0.200                      | -0.7616 |
| 0.250                       | -0.9526 | 0.250                    | ***** | 0.250                      | -0.8273 |
| 0.300                       | -0.9875 | 0.300                    | ***** | 0.300                      | -0.8678 |
| 0.350                       | -0.9793 | 0.350                    | ***** | 0.350                      | -0.9428 |
| 0.400                       | -0.9167 | 0.400                    | ***** | 0.400                      | -0.9708 |
| 0.450                       | -0.7820 | 0.450                    | ***** | 0.450                      | -1.0096 |
| 0.500                       | -0.4992 | 0.500                    | ***** | 0.500                      | -0.6146 |
| 0.550                       | -0.3925 | 0.550                    | ***** | 0.550                      | -0.3582 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.5315 | 0.005 | ***** | 0.005 | 0.5397 |
| 0.010 | 0.3423 | 0.010 | ***** | 0.010 | 0.2641 |

Flight 28 Test point 9

Sweep, deg = 29.9 Mach = 0.80 hp, ft = 35100. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 219.8 Rnpu = 2000000.

| Upper surface               |         |                          |       |                            |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8082  | 0.000                    | ***** | 0.000                      | 0.8434  |
| 0.005                       | 0.1017  | 0.005                    | ***** | 0.005                      | 0.3477  |
| 0.010                       | -0.1274 | 0.010                    | ***** | 0.010                      | 0.0839  |
| 0.020                       | -0.3529 | 0.020                    | ***** | 0.020                      | -0.2256 |
| 0.040                       | -0.5250 | 0.040                    | ***** | 0.040                      | -0.3919 |
| 0.060                       | -0.5405 | 0.060                    | ***** | 0.060                      | -0.4782 |
| 0.080                       | -0.6312 | 0.080                    | ***** | 0.080                      | -0.5077 |
| 0.100                       | -0.6746 | 0.100                    | ***** | 0.100                      | -0.5215 |
| 0.125                       | -0.6152 | 0.125                    | ***** | 0.125                      | -0.5407 |
| 0.150                       | -0.6379 | 0.150                    | ***** | 0.150                      | -0.5871 |
| 0.175                       | -0.6768 | 0.175                    | ***** | 0.175                      | -0.6272 |
| 0.200                       | -0.7594 | 0.200                    | ***** | 0.200                      | -0.6416 |
| 0.250                       | -0.7385 | 0.250                    | ***** | 0.250                      | -0.6730 |
| 0.300                       | -0.7607 | 0.300                    | ***** | 0.300                      | -0.7013 |
| 0.350                       | -0.7627 | 0.350                    | ***** | 0.350                      | -0.7684 |
| 0.400                       | -0.7428 | 0.400                    | ***** | 0.400                      | -0.7653 |
| 0.450                       | -0.6081 | 0.450                    | ***** | 0.450                      | -0.4337 |
| 0.500                       | -0.4698 | 0.500                    | ***** | 0.500                      | -0.4221 |
| 0.550                       | -0.4062 | 0.550                    | ***** | 0.550                      | -0.4088 |

\*\*\* - no data

| Lower surface |        |       |       |       |        |
|---------------|--------|-------|-------|-------|--------|
| 0.005         | 0.3507 | 0.005 | ***** | 0.005 | 0.3325 |
| 0.010         | 0.1275 | 0.010 | ***** | 0.010 | 0.0037 |

Flight 28 Test point 10

Sweep, deg = 34.9 Mach = 0.81 hp, ft = 35200. Angle of attack, deg = 2.9  
 Angle of sideslip, deg = 3.3 QBAR, lb/ft<sup>2</sup> = 223.7 Rnpu = 2017000.

| Upper surface               |         |                          |       |                            |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.6476  | 0.000                    | ***** | 0.000                      | 0.6669  |
| 0.005                       | -0.2844 | 0.005                    | ***** | 0.005                      | -0.0528 |
| 0.010                       | -0.4944 | 0.010                    | ***** | 0.010                      | -0.3438 |
| 0.020                       | -0.6831 | 0.020                    | ***** | 0.020                      | -0.6856 |
| 0.040                       | -0.8166 | 0.040                    | ***** | 0.040                      | -0.7596 |
| 0.060                       | -0.8632 | 0.060                    | ***** | 0.060                      | -0.8192 |
| 0.080                       | -0.8486 | 0.080                    | ***** | 0.080                      | -0.8778 |
| 0.100                       | -0.8745 | 0.100                    | ***** | 0.100                      | -0.8738 |
| 0.125                       | -0.7331 | 0.125                    | ***** | 0.125                      | -0.8190 |
| 0.150                       | -0.8260 | 0.150                    | ***** | 0.150                      | -0.7997 |
| 0.175                       | -0.7983 | 0.175                    | ***** | 0.175                      | -0.8543 |
| 0.200                       | -0.8939 | 0.200                    | ***** | 0.200                      | -0.8067 |
| 0.250                       | -0.9426 | 0.250                    | ***** | 0.250                      | -0.8450 |
| 0.300                       | -0.8572 | 0.300                    | ***** | 0.300                      | -0.8602 |
| 0.350                       | -0.7584 | 0.350                    | ***** | 0.350                      | -0.8983 |
| 0.400                       | -0.7873 | 0.400                    | ***** | 0.400                      | -0.8727 |
| 0.450                       | -0.7028 | 0.450                    | ***** | 0.450                      | -0.3944 |
| 0.500                       | -0.4592 | 0.500                    | ***** | 0.500                      | -0.3592 |
| 0.550                       | -0.3904 | 0.550                    | ***** | 0.550                      | -0.3666 |

\*\*\* - no data

| Lower surface |        |       |       |       |        |
|---------------|--------|-------|-------|-------|--------|
| 0.005         | 0.5219 | 0.005 | ***** | 0.005 | 0.5466 |
| 0.010         | 0.3572 | 0.010 | ***** | 0.010 | 0.3305 |

Flight 28 Test point 11

Sweep, deg = 34.9 Mach = 0.80 hp, ft = 34400. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 226.1 Rnpu = 2046000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.7165  | 0.000                    | ***** | 0.000                      | 0.7510  |
| 0.005                       | 0.0818  | 0.005                    | ***** | 0.005                      | 0.3115  |
| 0.010                       | -0.1267 | 0.010                    | ***** | 0.010                      | 0.0662  |
| 0.020                       | -0.3218 | 0.020                    | ***** | 0.020                      | -0.2105 |
| 0.040                       | -0.4450 | 0.040                    | ***** | 0.040                      | -0.3535 |
| 0.060                       | -0.4923 | 0.060                    | ***** | 0.060                      | -0.4206 |
| 0.080                       | -0.5938 | 0.080                    | ***** | 0.080                      | -0.4422 |
| 0.100                       | -0.5349 | 0.100                    | ***** | 0.100                      | -0.4491 |
| 0.125                       | -0.4976 | 0.125                    | ***** | 0.125                      | -0.4586 |
| 0.150                       | -0.6038 | 0.150                    | ***** | 0.150                      | -0.4877 |
| 0.175                       | -0.6033 | 0.175                    | ***** | 0.175                      | -0.5252 |
| 0.200                       | -0.6055 | 0.200                    | ***** | 0.200                      | -0.5087 |
| 0.250                       | -0.6366 | 0.250                    | ***** | 0.250                      | -0.5495 |
| 0.300                       | -0.6299 | 0.300                    | ***** | 0.300                      | -0.5309 |
| 0.350                       | -0.6194 | 0.350                    | ***** | 0.350                      | -0.5385 |
| 0.400                       | -0.5450 | 0.400                    | ***** | 0.400                      | -0.4997 |
| 0.450                       | -0.4647 | 0.450                    | ***** | 0.450                      | -0.4595 |
| 0.500                       | -0.4469 | 0.500                    | ***** | 0.500                      | -0.4086 |
| 0.550                       | -0.3839 | 0.550                    | ***** | 0.550                      | -0.3949 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |         |
|-------|--------|-------|-------|-------|---------|
| 0.005 | 0.2778 | 0.005 | ***** | 0.005 | 0.2642  |
| 0.010 | 0.0708 | 0.010 | ***** | 0.010 | -0.0425 |

Flight 28 Test point 12

Sweep, deg = 34.8 Mach = 0.80 hp, ft = 35800. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 214.2 Rnpu = 1953000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.6977  | 0.000                    | ***** | 0.000                      | 0.7279  |
| 0.005                       | -0.0872 | 0.005                    | ***** | 0.005                      | 0.1424  |
| 0.010                       | -0.3070 | 0.010                    | ***** | 0.010                      | -0.1295 |
| 0.020                       | -0.5046 | 0.020                    | ***** | 0.020                      | -0.4200 |
| 0.040                       | -0.6604 | 0.040                    | ***** | 0.040                      | -0.5470 |
| 0.060                       | -0.5807 | 0.060                    | ***** | 0.060                      | -0.6354 |
| 0.080                       | -0.6733 | 0.080                    | ***** | 0.080                      | -0.5799 |
| 0.100                       | -0.7232 | 0.100                    | ***** | 0.100                      | -0.6236 |
| 0.125                       | -0.6532 | 0.125                    | ***** | 0.125                      | -0.5761 |
| 0.150                       | -0.6189 | 0.150                    | ***** | 0.150                      | -0.6390 |
| 0.175                       | -0.6442 | 0.175                    | ***** | 0.175                      | -0.6759 |
| 0.200                       | -0.7141 | 0.200                    | ***** | 0.200                      | -0.6788 |
| 0.250                       | -0.7447 | 0.250                    | ***** | 0.250                      | -0.6725 |
| 0.300                       | -0.7565 | 0.300                    | ***** | 0.300                      | -0.6754 |
| 0.350                       | -0.7273 | 0.350                    | ***** | 0.350                      | -0.5482 |
| 0.400                       | -0.6656 | 0.400                    | ***** | 0.400                      | -0.5351 |
| 0.450                       | -0.4707 | 0.450                    | ***** | 0.450                      | -0.4849 |
| 0.500                       | -0.4591 | 0.500                    | ***** | 0.500                      | -0.4216 |
| 0.550                       | -0.3936 | 0.550                    | ***** | 0.550                      | -0.4030 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.4043 | 0.005 | ***** | 0.005 | 0.4222 |
| 0.010 | 0.2174 | 0.010 | ***** | 0.010 | 0.1581 |



Fight 28 Test point 13

Sweep, deg = 25.1 Mach = 0.80 hp, ft = 25400. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 344.9 Rnpu = 2851000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9016  | 0.000                    | ***** | 0.000                      | 0.9283  |
| 0.005                       | 0.2744  | 0.005                    | ***** | 0.005                      | 0.5335  |
| 0.010                       | 0.0259  | 0.010                    | ***** | 0.010                      | 0.2751  |
| 0.020                       | -0.2172 | 0.020                    | ***** | 0.020                      | -0.0535 |
| 0.040                       | -0.4168 | 0.040                    | ***** | 0.040                      | -0.2487 |
| 0.060                       | -0.4659 | 0.060                    | ***** | 0.060                      | -0.3563 |
| 0.080                       | -0.5483 | 0.080                    | ***** | 0.080                      | -0.4055 |
| 0.100                       | -0.5830 | 0.100                    | ***** | 0.100                      | -0.4337 |
| 0.125                       | -0.5780 | 0.125                    | ***** | 0.125                      | -0.4618 |
| 0.150                       | -0.6374 | 0.150                    | ***** | 0.150                      | -0.4950 |
| 0.175                       | -0.6284 | 0.175                    | ***** | 0.175                      | -0.5640 |
| 0.200                       | -0.7489 | 0.200                    | ***** | 0.200                      | -0.5887 |
| 0.250                       | -0.8111 | 0.250                    | ***** | 0.250                      | -0.6499 |
| 0.300                       | -0.8691 | 0.300                    | ***** | 0.300                      | -0.7026 |
| 0.350                       | -0.8632 | 0.350                    | ***** | 0.350                      | -0.7764 |
| 0.400                       | -0.8183 | 0.400                    | ***** | 0.400                      | -0.8193 |
| 0.450                       | -0.7571 | 0.450                    | ***** | 0.450                      | -0.8770 |
| 0.500                       | -0.8066 | 0.500                    | ***** | 0.500                      | -0.8976 |
| 0.550                       | -0.4044 | 0.550                    | ***** | 0.550                      | -0.4466 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |         |
|-------|--------|-------|-------|-------|---------|
| 0.005 | 0.2990 | 0.005 | ***** | 0.005 | 0.2314  |
| 0.010 | 0.0372 | 0.010 | ***** | 0.010 | -0.1592 |

Flight 28 Test point 14

Sweep, deg = 25.1 Mach = 0.80 hp, ft = 25800. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 336.2 Rnpu = 2802000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8948  | 0.000                    | ***** | 0.000                      | 0.9234  |
| 0.005                       | 0.1022  | 0.005                    | ***** | 0.005                      | 0.3923  |
| 0.010                       | -0.1511 | 0.010                    | ***** | 0.010                      | 0.1082  |
| 0.020                       | -0.4006 | 0.020                    | ***** | 0.020                      | -0.2390 |
| 0.040                       | -0.6173 | 0.040                    | ***** | 0.040                      | -0.4159 |
| 0.060                       | -0.6713 | 0.060                    | ***** | 0.060                      | -0.5158 |
| 0.080                       | -0.5883 | 0.080                    | ***** | 0.080                      | -0.5572 |
| 0.100                       | -0.7782 | 0.100                    | ***** | 0.100                      | -0.5809 |
| 0.125                       | -0.6561 | 0.125                    | ***** | 0.125                      | -0.5632 |
| 0.150                       | -0.7644 | 0.150                    | ***** | 0.150                      | -0.6184 |
| 0.175                       | -0.7482 | 0.175                    | ***** | 0.175                      | -0.6644 |
| 0.200                       | -0.8460 | 0.200                    | ***** | 0.200                      | -0.6710 |
| 0.250                       | -0.9058 | 0.250                    | ***** | 0.250                      | -0.7529 |
| 0.300                       | -0.9704 | 0.300                    | ***** | 0.300                      | -0.8051 |
| 0.350                       | -0.9582 | 0.350                    | ***** | 0.350                      | -0.8694 |
| 0.400                       | -0.9798 | 0.400                    | ***** | 0.400                      | -0.9116 |
| 0.450                       | -0.9800 | 0.450                    | ***** | 0.450                      | -0.9579 |
| 0.500                       | -0.6291 | 0.500                    | ***** | 0.500                      | -0.9820 |
| 0.550                       | -0.4063 | 0.550                    | ***** | 0.550                      | -0.5002 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.4497 | 0.005 | ***** | 0.005 | 0.3975 |
| 0.010 | 0.2119 | 0.010 | ***** | 0.010 | 0.0534 |

Fight 28 Test point 15

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25100. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 351.1 Rnpu = 2888000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9737  | 0.000                    | ***** | 0.000                      | 0.9977  |
| 0.005                       | 0.3909  | 0.005                    | ***** | 0.005                      | 0.6518  |
| 0.010                       | 0.1332  | 0.010                    | ***** | 0.010                      | 0.3938  |
| 0.020                       | -0.1235 | 0.020                    | ***** | 0.020                      | 0.0550  |
| 0.040                       | -0.3419 | 0.040                    | ***** | 0.040                      | -0.1508 |
| 0.060                       | -0.4180 | 0.060                    | ***** | 0.060                      | -0.2757 |
| 0.080                       | -0.5049 | 0.080                    | ***** | 0.080                      | -0.3315 |
| 0.100                       | -0.5200 | 0.100                    | ***** | 0.100                      | -0.3696 |
| 0.125                       | -0.5493 | 0.125                    | ***** | 0.125                      | -0.4006 |
| 0.150                       | -0.5795 | 0.150                    | ***** | 0.150                      | -0.4549 |
| 0.175                       | -0.6013 | 0.175                    | ***** | 0.175                      | -0.5061 |
| 0.200                       | -0.7325 | 0.200                    | ***** | 0.200                      | -0.5432 |
| 0.250                       | -0.7968 | 0.250                    | ***** | 0.250                      | -0.6204 |
| 0.300                       | -0.8513 | 0.300                    | ***** | 0.300                      | -0.6839 |
| 0.350                       | -0.8793 | 0.350                    | ***** | 0.350                      | -0.7545 |
| 0.400                       | -0.9060 | 0.400                    | ***** | 0.400                      | -0.8063 |
| 0.450                       | -0.9255 | 0.450                    | ***** | 0.450                      | -0.8595 |
| 0.500                       | -0.9935 | 0.500                    | ***** | 0.500                      | -0.8887 |
| 0.550                       | -0.4265 | 0.550                    | ***** | 0.550                      | -0.8881 |

\*\*\* - no data

Lower surface

|       |         |       |       |       |         |
|-------|---------|-------|-------|-------|---------|
| 0.005 | 0.2808  | 0.005 | ***** | 0.005 | 0.1964  |
| 0.010 | -0.0017 | 0.010 | ***** | 0.010 | -0.2356 |

Flight 28 Test point 16

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 350.0 Rnpu = 2889000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9779  | 0.000                    | ***** | 0.000                      | 1.0020  |
| 0.005                       | 0.2907  | 0.005                    | ***** | 0.005                      | 0.5767  |
| 0.010                       | 0.0285  | 0.010                    | ***** | 0.010                      | 0.3017  |
| 0.020                       | -0.2320 | 0.020                    | ***** | 0.020                      | -0.0486 |
| 0.040                       | -0.4478 | 0.040                    | ***** | 0.040                      | -0.2520 |
| 0.060                       | -0.5010 | 0.060                    | ***** | 0.060                      | -0.3711 |
| 0.080                       | -0.5631 | 0.080                    | ***** | 0.080                      | -0.4180 |
| 0.100                       | -0.7051 | 0.100                    | ***** | 0.100                      | -0.4499 |
| 0.125                       | -0.5581 | 0.125                    | ***** | 0.125                      | -0.4737 |
| 0.150                       | -0.6819 | 0.150                    | ***** | 0.150                      | -0.5345 |
| 0.175                       | -0.6829 | 0.175                    | ***** | 0.175                      | -0.5725 |
| 0.200                       | -0.7726 | 0.200                    | ***** | 0.200                      | -0.6034 |
| 0.250                       | -0.8563 | 0.250                    | ***** | 0.250                      | -0.6697 |
| 0.300                       | -0.9313 | 0.300                    | ***** | 0.300                      | -0.7391 |
| 0.350                       | -0.9417 | 0.350                    | ***** | 0.350                      | -0.8099 |
| 0.400                       | -0.9360 | 0.400                    | ***** | 0.400                      | -0.8625 |
| 0.450                       | -0.9639 | 0.450                    | ***** | 0.450                      | -0.9109 |
| 0.500                       | -1.0598 | 0.500                    | ***** | 0.500                      | -0.9479 |
| 0.550                       | -0.4539 | 0.550                    | ***** | 0.550                      | -0.8854 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |         |
|-------|--------|-------|-------|-------|---------|
| 0.005 | 0.3741 | 0.005 | ***** | 0.005 | 0.2947  |
| 0.010 | 0.1047 | 0.010 | ***** | 0.010 | -0.1081 |

Flight 28 Test point 17

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25100. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 350.9 Rnpu = 2884000.

| Upper surface               |         |                          |       |                            |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 1.0348  | 0.000                    | ***** | 0.000                      | 1.0600  |
| 0.005                       | 0.4295  | 0.005                    | ***** | 0.005                      | 0.7134  |
| 0.010                       | 0.1643  | 0.010                    | ***** | 0.010                      | 0.4527  |
| 0.020                       | -0.1041 | 0.020                    | ***** | 0.020                      | 0.1069  |
| 0.040                       | -0.3317 | 0.040                    | ***** | 0.040                      | -0.1103 |
| 0.060                       | -0.4135 | 0.060                    | ***** | 0.060                      | -0.2372 |
| 0.080                       | -0.4892 | 0.080                    | ***** | 0.080                      | -0.2956 |
| 0.100                       | -0.5598 | 0.100                    | ***** | 0.100                      | -0.3350 |
| 0.125                       | -0.5297 | 0.125                    | ***** | 0.125                      | -0.3691 |
| 0.150                       | -0.6079 | 0.150                    | ***** | 0.150                      | -0.4284 |
| 0.175                       | -0.6185 | 0.175                    | ***** | 0.175                      | -0.4783 |
| 0.200                       | -0.7127 | 0.200                    | ***** | 0.200                      | -0.5014 |
| 0.250                       | -0.8112 | 0.250                    | ***** | 0.250                      | -0.5990 |
| 0.300                       | -0.8860 | 0.300                    | ***** | 0.300                      | -0.6626 |
| 0.350                       | -0.9044 | 0.350                    | ***** | 0.350                      | -0.7300 |
| 0.400                       | -0.9280 | 0.400                    | ***** | 0.400                      | -0.7832 |
| 0.450                       | -0.9475 | 0.450                    | ***** | 0.450                      | -0.8298 |
| 0.500                       | -1.0252 | 0.500                    | ***** | 0.500                      | -0.8715 |
| 0.550                       | -0.4669 | 0.550                    | ***** | 0.550                      | -0.8970 |

\*\*\* - no data

| Lower surface |        |       |       |       |         |
|---------------|--------|-------|-------|-------|---------|
| 0.005         | 0.3272 | 0.005 | ***** | 0.005 | 0.2292  |
| 0.010         | 0.0375 | 0.010 | ***** | 0.010 | -0.2117 |

Flight 28 Test point 18

Sweep, deg = 27.3 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 272.0 Rnpu = 2512000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8116  | 0.000                    | ***** | 0.000                      | 0.8578  |
| 0.005                       | -0.1100 | 0.005                    | ***** | 0.005                      | 0.2367  |
| 0.010                       | -0.3595 | 0.010                    | ***** | 0.010                      | -0.0569 |
| 0.020                       | -0.5768 | 0.020                    | ***** | 0.020                      | -0.3808 |
| 0.040                       | -0.6944 | 0.040                    | ***** | 0.040                      | -0.5035 |
| 0.060                       | -0.7078 | 0.060                    | ***** | 0.060                      | -0.5574 |
| 0.080                       | -0.7138 | 0.080                    | ***** | 0.080                      | -0.5507 |
| 0.100                       | -0.7007 | 0.100                    | ***** | 0.100                      | -0.5573 |
| 0.125                       | -0.6339 | 0.125                    | ***** | 0.125                      | -0.5481 |
| 0.150                       | -0.7009 | 0.150                    | ***** | 0.150                      | -0.5516 |
| 0.175                       | -0.6768 | 0.175                    | ***** | 0.175                      | -0.5806 |
| 0.200                       | -0.7219 | 0.200                    | ***** | 0.200                      | -0.5680 |
| 0.250                       | -0.7011 | 0.250                    | ***** | 0.250                      | -0.5883 |
| 0.300                       | -0.6757 | 0.300                    | ***** | 0.300                      | -0.5705 |
| 0.350                       | -0.6283 | 0.350                    | ***** | 0.350                      | -0.5649 |
| 0.400                       | -0.5712 | 0.400                    | ***** | 0.400                      | -0.5343 |
| 0.450                       | -0.5060 | 0.450                    | ***** | 0.450                      | -0.5123 |
| 0.500                       | -0.4885 | 0.500                    | ***** | 0.500                      | -0.4711 |
| 0.550                       | -0.4208 | 0.550                    | ***** | 0.550                      | -0.4582 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.4735 | 0.005 | ***** | 0.005 | 0.4199 |
| 0.010 | 0.2614 | 0.010 | ***** | 0.010 | 0.1017 |

Flight 28 Test point 19

Sweep, deg = 27.3 Mach = 0.70 hp, ft = 23000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 296.8 Rnpu = 2693000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8148  | 0.000                    | ***** | 0.000                      | 0.8583  |
| 0.005                       | -0.1038 | 0.005                    | ***** | 0.005                      | 0.2524  |
| 0.010                       | -0.3526 | 0.010                    | ***** | 0.010                      | -0.0444 |
| 0.020                       | -0.5734 | 0.020                    | ***** | 0.020                      | -0.3730 |
| 0.040                       | -0.6934 | 0.040                    | ***** | 0.040                      | -0.4950 |
| 0.060                       | -0.7059 | 0.060                    | ***** | 0.060                      | -0.5507 |
| 0.080                       | -0.7186 | 0.080                    | ***** | 0.080                      | -0.5549 |
| 0.100                       | -0.7038 | 0.100                    | ***** | 0.100                      | -0.5546 |
| 0.125                       | -0.6319 | 0.125                    | ***** | 0.125                      | -0.5504 |
| 0.150                       | -0.6999 | 0.150                    | ***** | 0.150                      | -0.5528 |
| 0.175                       | -0.6757 | 0.175                    | ***** | 0.175                      | -0.5807 |
| 0.200                       | -0.7195 | 0.200                    | ***** | 0.200                      | -0.5702 |
| 0.250                       | -0.7016 | 0.250                    | ***** | 0.250                      | -0.5881 |
| 0.300                       | -0.6767 | 0.300                    | ***** | 0.300                      | -0.5723 |
| 0.350                       | -0.6259 | 0.350                    | ***** | 0.350                      | -0.5663 |
| 0.400                       | -0.5729 | 0.400                    | ***** | 0.400                      | -0.5397 |
| 0.450                       | -0.5050 | 0.450                    | ***** | 0.450                      | -0.5138 |
| 0.500                       | -0.4878 | 0.500                    | ***** | 0.500                      | -0.4703 |
| 0.550                       | -0.4198 | 0.550                    | ***** | 0.550                      | -0.4592 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.4667 | 0.005 | ***** | 0.005 | 0.4111 |
| 0.010 | 0.2493 | 0.010 | ***** | 0.010 | 0.0835 |

Flight 28 Test point 20

Sweep, deg = 31.1 Mach = 0.71 hp, ft = 25000. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 273.6 Rnpu = 2519000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.7362  | 0.000                    | ***** | 0.000                      | 0.7809  |
| 0.005                       | -0.1951 | 0.005                    | ***** | 0.005                      | 0.1487  |
| 0.010                       | -0.4313 | 0.010                    | ***** | 0.010                      | -0.1430 |
| 0.020                       | -0.6195 | 0.020                    | ***** | 0.020                      | -0.4439 |
| 0.040                       | -0.7118 | 0.040                    | ***** | 0.040                      | -0.5446 |
| 0.060                       | -0.7120 | 0.060                    | ***** | 0.060                      | -0.5774 |
| 0.080                       | -0.6948 | 0.080                    | ***** | 0.080                      | -0.5692 |
| 0.100                       | -0.6877 | 0.100                    | ***** | 0.100                      | -0.5641 |
| 0.125                       | -0.6148 | 0.125                    | ***** | 0.125                      | -0.5479 |
| 0.150                       | -0.6731 | 0.150                    | ***** | 0.150                      | -0.5550 |
| 0.175                       | -0.6485 | 0.175                    | ***** | 0.175                      | -0.5655 |
| 0.200                       | -0.6868 | 0.200                    | ***** | 0.200                      | -0.5557 |
| 0.250                       | -0.6650 | 0.250                    | ***** | 0.250                      | -0.5680 |
| 0.300                       | -0.6394 | 0.300                    | ***** | 0.300                      | -0.5465 |
| 0.350                       | -0.5943 | 0.350                    | ***** | 0.350                      | -0.5383 |
| 0.400                       | -0.5440 | 0.400                    | ***** | 0.400                      | -0.5159 |
| 0.450                       | -0.4795 | 0.450                    | ***** | 0.450                      | -0.4863 |
| 0.500                       | -0.4643 | 0.500                    | ***** | 0.500                      | -0.4472 |
| 0.550                       | -0.4013 | 0.550                    | ***** | 0.550                      | -0.4418 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.4744 | 0.005 | ***** | 0.005 | 0.4341 |
| 0.010 | 0.2739 | 0.010 | ***** | 0.010 | 0.1460 |



Fight 28 Test point 21

Sweep, deg = 31.1 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 2.4  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 272.0 Rnpu = 2510000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.7120  | 0.000                    | ***** | 0.000                      | 0.7642  |
| 0.005                       | -0.3130 | 0.005                    | ***** | 0.005                      | 0.0506  |
| 0.010                       | -0.5476 | 0.010                    | ***** | 0.010                      | -0.2543 |
| 0.020                       | -0.7373 | 0.020                    | ***** | 0.020                      | -0.5593 |
| 0.040                       | -0.8083 | 0.040                    | ***** | 0.040                      | -0.6380 |
| 0.060                       | -0.7929 | 0.060                    | ***** | 0.060                      | -0.6560 |
| 0.080                       | -0.7679 | 0.080                    | ***** | 0.080                      | -0.6318 |
| 0.100                       | -0.7447 | 0.100                    | ***** | 0.100                      | -0.6214 |
| 0.125                       | -0.6614 | 0.125                    | ***** | 0.125                      | -0.5988 |
| 0.150                       | -0.7186 | 0.150                    | ***** | 0.150                      | -0.5995 |
| 0.175                       | -0.6869 | 0.175                    | ***** | 0.175                      | -0.6095 |
| 0.200                       | -0.7247 | 0.200                    | ***** | 0.200                      | -0.5887 |
| 0.250                       | -0.6997 | 0.250                    | ***** | 0.250                      | -0.5965 |
| 0.300                       | -0.6667 | 0.300                    | ***** | 0.300                      | -0.5676 |
| 0.350                       | -0.6131 | 0.350                    | ***** | 0.350                      | -0.5580 |
| 0.400                       | -0.5580 | 0.400                    | ***** | 0.400                      | -0.5348 |
| 0.450                       | -0.4917 | 0.450                    | ***** | 0.450                      | -0.5017 |
| 0.500                       | -0.4714 | 0.500                    | ***** | 0.500                      | -0.4589 |
| 0.550                       | -0.4077 | 0.550                    | ***** | 0.550                      | -0.4468 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.5315 | 0.005 | ***** | 0.005 | 0.5010 |
| 0.010 | 0.3434 | 0.010 | ***** | 0.010 | 0.2344 |

Flight 28 Test point 22

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 336.7 Rnpu = 2982000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9480  | 0.000                    | ***** | 0.000                      | 0.9790  |
| 0.005                       | 0.1686  | 0.005                    | ***** | 0.005                      | 0.5147  |
| 0.010                       | -0.1027 | 0.010                    | ***** | 0.010                      | 0.2286  |
| 0.020                       | -0.3564 | 0.020                    | ***** | 0.020                      | -0.1193 |
| 0.040                       | -0.5361 | 0.040                    | ***** | 0.040                      | -0.3012 |
| 0.060                       | -0.5856 | 0.060                    | ***** | 0.060                      | -0.3909 |
| 0.080                       | -0.6235 | 0.080                    | ***** | 0.080                      | -0.4142 |
| 0.100                       | -0.6365 | 0.100                    | ***** | 0.100                      | -0.4381 |
| 0.125                       | -0.5871 | 0.125                    | ***** | 0.125                      | -0.4521 |
| 0.150                       | -0.6682 | 0.150                    | ***** | 0.150                      | -0.4850 |
| 0.175                       | -0.6561 | 0.175                    | ***** | 0.175                      | -0.5189 |
| 0.200                       | -0.7143 | 0.200                    | ***** | 0.200                      | -0.5254 |
| 0.250                       | -0.7092 | 0.250                    | ***** | 0.250                      | -0.5698 |
| 0.300                       | -0.6972 | 0.300                    | ***** | 0.300                      | -0.5693 |
| 0.350                       | -0.6428 | 0.350                    | ***** | 0.350                      | -0.5800 |
| 0.400                       | -0.5905 | 0.400                    | ***** | 0.400                      | -0.5590 |
| 0.450                       | -0.5232 | 0.450                    | ***** | 0.450                      | -0.5341 |
| 0.500                       | -0.5029 | 0.500                    | ***** | 0.500                      | -0.4924 |
| 0.550                       | -0.4381 | 0.550                    | ***** | 0.550                      | -0.4717 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |         |
|-------|--------|-------|-------|-------|---------|
| 0.005 | 0.3625 | 0.005 | ***** | 0.005 | 0.2427  |
| 0.010 | 0.0931 | 0.010 | ***** | 0.010 | -0.1649 |

Flight 28 Test point 23

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 21300. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 317.2 R<sub>npu</sub> = 2840000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 1.0049  | 0.000                    | ***** | 0.000                      | 1.0311  |
| 0.005                       | 0.2802  | 0.005                    | ***** | 0.005                      | 0.6392  |
| 0.010                       | 0.0036  | 0.010                    | ***** | 0.010                      | 0.3595  |
| 0.020                       | -0.2663 | 0.020                    | ***** | 0.020                      | 0.0085  |
| 0.040                       | -0.4605 | 0.040                    | ***** | 0.040                      | -0.1931 |
| 0.060                       | -0.5249 | 0.060                    | ***** | 0.060                      | -0.3012 |
| 0.080                       | -0.5704 | 0.080                    | ***** | 0.080                      | -0.3439 |
| 0.100                       | -0.5896 | 0.100                    | ***** | 0.100                      | -0.3738 |
| 0.125                       | -0.5528 | 0.125                    | ***** | 0.125                      | -0.3939 |
| 0.150                       | -0.6306 | 0.150                    | ***** | 0.150                      | -0.4331 |
| 0.175                       | -0.6283 | 0.175                    | ***** | 0.175                      | -0.4620 |
| 0.200                       | -0.6899 | 0.200                    | ***** | 0.200                      | -0.4788 |
| 0.250                       | -0.6906 | 0.250                    | ***** | 0.250                      | -0.5279 |
| 0.300                       | -0.6771 | 0.300                    | ***** | 0.300                      | -0.5385 |
| 0.350                       | -0.6301 | 0.350                    | ***** | 0.350                      | -0.5548 |
| 0.400                       | -0.5734 | 0.400                    | ***** | 0.400                      | -0.5388 |
| 0.450                       | -0.5066 | 0.450                    | ***** | 0.450                      | -0.5272 |
| 0.500                       | -0.4879 | 0.500                    | ***** | 0.500                      | -0.4700 |
| 0.550                       | -0.4209 | 0.550                    | ***** | 0.550                      | -0.4511 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |         |
|-------|--------|-------|-------|-------|---------|
| 0.005 | 0.3315 | 0.005 | ***** | 0.005 | 0.1714  |
| 0.010 | 0.0451 | 0.010 | ***** | 0.010 | -0.2784 |

Fight 28 Test point 24

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = 0.4 QBAR, lb/ft<sup>2</sup> = 354.0 Rnpu = 2906000.

| Upper surface               |         |                          |       |                            |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9683  | 0.000                    | ***** | 0.000                      | 0.9931  |
| 0.005                       | 0.3620  | 0.005                    | ***** | 0.005                      | 0.6361  |
| 0.010                       | 0.1123  | 0.010                    | ***** | 0.010                      | 0.3772  |
| 0.020                       | -0.1439 | 0.020                    | ***** | 0.020                      | 0.0383  |
| 0.040                       | -0.3644 | 0.040                    | ***** | 0.040                      | -0.1691 |
| 0.060                       | -0.4362 | 0.060                    | ***** | 0.060                      | -0.2995 |
| 0.080                       | -0.5176 | 0.080                    | ***** | 0.080                      | -0.3401 |
| 0.100                       | -0.5812 | 0.100                    | ***** | 0.100                      | -0.3777 |
| 0.125                       | -0.5444 | 0.125                    | ***** | 0.125                      | -0.4163 |
| 0.150                       | -0.6117 | 0.150                    | ***** | 0.150                      | -0.4699 |
| 0.175                       | -0.6111 | 0.175                    | ***** | 0.175                      | -0.5221 |
| 0.200                       | -0.7303 | 0.200                    | ***** | 0.200                      | -0.5535 |
| 0.250                       | -0.8058 | 0.250                    | ***** | 0.250                      | -0.6299 |
| 0.300                       | -0.8553 | 0.300                    | ***** | 0.300                      | -0.6949 |
| 0.350                       | -0.8828 | 0.350                    | ***** | 0.350                      | -0.7659 |
| 0.400                       | -0.9043 | 0.400                    | ***** | 0.400                      | -0.8137 |
| 0.450                       | -0.9268 | 0.450                    | ***** | 0.450                      | -0.8718 |
| 0.500                       | -0.9965 | 0.500                    | ***** | 0.500                      | -0.8968 |
| 0.550                       | -0.4357 | 0.550                    | ***** | 0.550                      | -0.9121 |

\*\*\* - no data

| Lower surface |        |       |       |       |         |
|---------------|--------|-------|-------|-------|---------|
| 0.005         | 0.3076 | 0.005 | ***** | 0.005 | 0.2128  |
| 0.010         | 0.0259 | 0.010 | ***** | 0.010 | -0.2200 |

Fight 28 Test point 25

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 24800. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 354.5 Rnpu = 2914000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9778  | 0.000                    | ***** | 0.000                      | 0.9979  |
| 0.005                       | 0.3651  | 0.005                    | ***** | 0.005                      | 0.6347  |
| 0.010                       | 0.1063  | 0.010                    | ***** | 0.010                      | 0.3762  |
| 0.020                       | -0.1548 | 0.020                    | ***** | 0.020                      | 0.0347  |
| 0.040                       | -0.3724 | 0.040                    | ***** | 0.040                      | -0.1753 |
| 0.060                       | -0.4391 | 0.060                    | ***** | 0.060                      | -0.2985 |
| 0.080                       | -0.5254 | 0.080                    | ***** | 0.080                      | -0.3518 |
| 0.100                       | -0.5947 | 0.100                    | ***** | 0.100                      | -0.3879 |
| 0.125                       | -0.5474 | 0.125                    | ***** | 0.125                      | -0.4194 |
| 0.150                       | -0.6237 | 0.150                    | ***** | 0.150                      | -0.4727 |
| 0.175                       | -0.6235 | 0.175                    | ***** | 0.175                      | -0.5239 |
| 0.200                       | -0.7420 | 0.200                    | ***** | 0.200                      | -0.5590 |
| 0.250                       | -0.8166 | 0.250                    | ***** | 0.250                      | -0.6402 |
| 0.300                       | -0.8721 | 0.300                    | ***** | 0.300                      | -0.7045 |
| 0.350                       | -0.8808 | 0.350                    | ***** | 0.350                      | -0.7691 |
| 0.400                       | -0.9098 | 0.400                    | ***** | 0.400                      | -0.8215 |
| 0.450                       | -0.9375 | 0.450                    | ***** | 0.450                      | -0.8804 |
| 0.500                       | -1.0181 | 0.500                    | ***** | 0.500                      | -0.9045 |
| 0.550                       | -0.4428 | 0.550                    | ***** | 0.550                      | -0.9189 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |         |
|-------|--------|-------|-------|-------|---------|
| 0.005 | 0.3049 | 0.005 | ***** | 0.005 | 0.2141  |
| 0.010 | 0.0237 | 0.010 | ***** | 0.010 | -0.2078 |

Fight 28 Test point 26

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25200. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -4.9 QBAR, lb/ft<sup>2</sup> = 351.3 Rnpu = 2882000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 1.0334  | 0.000                    | ***** | 0.000                      | 1.0552  |
| 0.005                       | 0.4342  | 0.005                    | ***** | 0.005                      | 0.7226  |
| 0.010                       | 0.1718  | 0.010                    | ***** | 0.010                      | 0.4582  |
| 0.020                       | -0.0919 | 0.020                    | ***** | 0.020                      | 0.1212  |
| 0.040                       | -0.3227 | 0.040                    | ***** | 0.040                      | -0.0959 |
| 0.060                       | -0.4003 | 0.060                    | ***** | 0.060                      | -0.2249 |
| 0.080                       | -0.4776 | 0.080                    | ***** | 0.080                      | -0.2887 |
| 0.100                       | -0.5494 | 0.100                    | ***** | 0.100                      | -0.3320 |
| 0.125                       | -0.5254 | 0.125                    | ***** | 0.125                      | -0.3611 |
| 0.150                       | -0.5979 | 0.150                    | ***** | 0.150                      | -0.4200 |
| 0.175                       | -0.6134 | 0.175                    | ***** | 0.175                      | -0.4716 |
| 0.200                       | -0.7090 | 0.200                    | ***** | 0.200                      | -0.5008 |
| 0.250                       | -0.7990 | 0.250                    | ***** | 0.250                      | -0.5937 |
| 0.300                       | -0.8820 | 0.300                    | ***** | 0.300                      | -0.6683 |
| 0.350                       | -0.9049 | 0.350                    | ***** | 0.350                      | -0.7360 |
| 0.400                       | -0.9225 | 0.400                    | ***** | 0.400                      | -0.7792 |
| 0.450                       | -0.9364 | 0.450                    | ***** | 0.450                      | -0.8295 |
| 0.500                       | -1.0194 | 0.500                    | ***** | 0.500                      | -0.8735 |
| 0.550                       | -0.5075 | 0.550                    | ***** | 0.550                      | -0.8490 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |         |
|-------|--------|-------|-------|-------|---------|
| 0.005 | 0.3217 | 0.005 | ***** | 0.005 | 0.2237  |
| 0.010 | 0.0297 | 0.010 | ***** | 0.010 | -0.2124 |

Fight 28 Test point 27

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25400. Angle of attack, deg = 2.4  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 348.6 Rnpu = 2873000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9672  | 0.000                    | ***** | 0.000                      | 0.9885  |
| 0.005                       | 0.0812  | 0.005                    | ***** | 0.005                      | 0.3865  |
| 0.010                       | -0.1881 | 0.010                    | ***** | 0.010                      | 0.0888  |
| 0.020                       | -0.4560 | 0.020                    | ***** | 0.020                      | -0.2788 |
| 0.040                       | -0.6343 | 0.040                    | ***** | 0.040                      | -0.4682 |
| 0.060                       | -0.7058 | 0.060                    | ***** | 0.060                      | -0.6351 |
| 0.080                       | -0.7749 | 0.080                    | ***** | 0.080                      | -0.6053 |
| 0.100                       | -0.7525 | 0.100                    | ***** | 0.100                      | -0.6606 |
| 0.125                       | -0.7365 | 0.125                    | ***** | 0.125                      | -0.6180 |
| 0.150                       | -0.8486 | 0.150                    | ***** | 0.150                      | -0.7078 |
| 0.175                       | -0.8507 | 0.175                    | ***** | 0.175                      | -0.6872 |
| 0.200                       | -0.9231 | 0.200                    | ***** | 0.200                      | -0.7166 |
| 0.250                       | -1.0005 | 0.250                    | ***** | 0.250                      | -0.8020 |
| 0.300                       | -1.0708 | 0.300                    | ***** | 0.300                      | -0.8542 |
| 0.350                       | -1.0702 | 0.350                    | ***** | 0.350                      | -0.9253 |
| 0.400                       | -1.0185 | 0.400                    | ***** | 0.400                      | -0.9693 |
| 0.450                       | -0.5511 | 0.450                    | ***** | 0.450                      | -1.0134 |
| 0.500                       | -0.5303 | 0.500                    | ***** | 0.500                      | -1.0385 |
| 0.550                       | -0.4755 | 0.550                    | ***** | 0.550                      | -0.7871 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.5629 | 0.005 | ***** | 0.005 | 0.5030 |
| 0.010 | 0.3248 | 0.010 | ***** | 0.010 | 0.1569 |

Fight 28 Test point 28

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 25000. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 307.8 Rnpu = 2690000.

| Upper surface               |         |                          |       |                            |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9639  | 0.000                    | ***** | 0.000                      | 0.9899  |
| 0.005                       | 0.1820  | 0.005                    | ***** | 0.005                      | 0.5009  |
| 0.010                       | -0.1019 | 0.010                    | ***** | 0.010                      | 0.2065  |
| 0.020                       | -0.3475 | 0.020                    | ***** | 0.020                      | -0.1348 |
| 0.040                       | -0.5490 | 0.040                    | ***** | 0.040                      | -0.3265 |
| 0.060                       | -0.5990 | 0.060                    | ***** | 0.060                      | -0.4350 |
| 0.080                       | -0.6769 | 0.080                    | ***** | 0.080                      | -0.4786 |
| 0.100                       | -0.6706 | 0.100                    | ***** | 0.100                      | -0.5055 |
| 0.125                       | -0.6666 | 0.125                    | ***** | 0.125                      | -0.5253 |
| 0.150                       | -0.6890 | 0.150                    | ***** | 0.150                      | -0.5692 |
| 0.175                       | -0.7474 | 0.175                    | ***** | 0.175                      | -0.6081 |
| 0.200                       | -0.8583 | 0.200                    | ***** | 0.200                      | -0.6166 |
| 0.250                       | -0.8692 | 0.250                    | ***** | 0.250                      | -0.6834 |
| 0.300                       | -0.8702 | 0.300                    | ***** | 0.300                      | -0.6875 |
| 0.350                       | -0.7867 | 0.350                    | ***** | 0.350                      | -0.7010 |
| 0.400                       | -0.6482 | 0.400                    | ***** | 0.400                      | -0.6266 |
| 0.450                       | -0.5505 | 0.450                    | ***** | 0.450                      | -0.5809 |
| 0.500                       | -0.5266 | 0.500                    | ***** | 0.500                      | -0.5272 |
| 0.550                       | -0.4535 | 0.550                    | ***** | 0.550                      | -0.4753 |

\*\*\* - no data

| Lower surface |        |       |       |       |         |
|---------------|--------|-------|-------|-------|---------|
| 0.005         | 0.4043 | 0.005 | ***** | 0.005 | 0.3097  |
| 0.010         | 0.1368 | 0.010 | ***** | 0.010 | -0.0879 |



Fight 28 Test point 29

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 25000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 309.4 Rnpu = 2696000.

| Upper surface               |         |                          |       |                            |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9570  | 0.000                    | ***** | 0.000                      | 0.9935  |
| 0.005                       | 0.2113  | 0.005                    | ***** | 0.005                      | 0.5386  |
| 0.010                       | -0.0559 | 0.010                    | ***** | 0.010                      | 0.2514  |
| 0.020                       | -0.3110 | 0.020                    | ***** | 0.020                      | -0.1096 |
| 0.040                       | -0.5166 | 0.040                    | ***** | 0.040                      | -0.2947 |
| 0.060                       | -0.5719 | 0.060                    | ***** | 0.060                      | -0.4129 |
| 0.080                       | -0.6546 | 0.080                    | ***** | 0.080                      | -0.4572 |
| 0.100                       | -0.6425 | 0.100                    | ***** | 0.100                      | -0.4893 |
| 0.125                       | -0.6380 | 0.125                    | ***** | 0.125                      | -0.5081 |
| 0.150                       | -0.6712 | 0.150                    | ***** | 0.150                      | -0.5474 |
| 0.175                       | -0.7405 | 0.175                    | ***** | 0.175                      | -0.5859 |
| 0.200                       | -0.8292 | 0.200                    | ***** | 0.200                      | -0.6046 |
| 0.250                       | -0.8561 | 0.250                    | ***** | 0.250                      | -0.6714 |
| 0.300                       | -0.8295 | 0.300                    | ***** | 0.300                      | -0.6807 |
| 0.350                       | -0.7849 | 0.350                    | ***** | 0.350                      | -0.7156 |
| 0.400                       | -0.7053 | 0.400                    | ***** | 0.400                      | -0.6149 |
| 0.450                       | -0.5602 | 0.450                    | ***** | 0.450                      | -0.5748 |
| 0.500                       | -0.5206 | 0.500                    | ***** | 0.500                      | -0.5162 |
| 0.550                       | -0.4534 | 0.550                    | ***** | 0.550                      | -0.4696 |

\*\*\* - no data

| Lower surface |        |       |       |       |         |
|---------------|--------|-------|-------|-------|---------|
| 0.005         | 0.3686 | 0.005 | ***** | 0.005 | 0.2784  |
| 0.010         | 0.1015 | 0.010 | ***** | 0.010 | -0.1339 |

Flight 28 Test point 30

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 25700. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 298.9 Rnpu = 2621000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 1.0195  | 0.000                    | ***** | 0.000                      | 1.0539  |
| 0.005                       | 0.2764  | 0.005                    | ***** | 0.005                      | 0.6143  |
| 0.010                       | -0.0026 | 0.010                    | ***** | 0.010                      | 0.3304  |
| 0.020                       | -0.2720 | 0.020                    | ***** | 0.020                      | -0.0294 |
| 0.040                       | -0.4877 | 0.040                    | ***** | 0.040                      | -0.2377 |
| 0.060                       | -0.5610 | 0.060                    | ***** | 0.060                      | -0.3530 |
| 0.080                       | -0.6292 | 0.080                    | ***** | 0.080                      | -0.3986 |
| 0.100                       | -0.6394 | 0.100                    | ***** | 0.100                      | -0.4332 |
| 0.125                       | -0.6302 | 0.125                    | ***** | 0.125                      | -0.4556 |
| 0.150                       | -0.6974 | 0.150                    | ***** | 0.150                      | -0.5030 |
| 0.175                       | -0.7179 | 0.175                    | ***** | 0.175                      | -0.5428 |
| 0.200                       | -0.8379 | 0.200                    | ***** | 0.200                      | -0.5662 |
| 0.250                       | -0.8670 | 0.250                    | ***** | 0.250                      | -0.6377 |
| 0.300                       | -0.9085 | 0.300                    | ***** | 0.300                      | -0.6709 |
| 0.350                       | -0.7694 | 0.350                    | ***** | 0.350                      | -0.6949 |
| 0.400                       | -0.6231 | 0.400                    | ***** | 0.400                      | -0.6389 |
| 0.450                       | -0.5413 | 0.450                    | ***** | 0.450                      | -0.6167 |
| 0.500                       | -0.5120 | 0.500                    | ***** | 0.500                      | -0.5066 |
| 0.550                       | -0.4357 | 0.550                    | ***** | 0.550                      | -0.4578 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |         |
|-------|--------|-------|-------|-------|---------|
| 0.005 | 0.3929 | 0.005 | ***** | 0.005 | 0.2748  |
| 0.010 | 0.1134 | 0.010 | ***** | 0.010 | -0.1549 |

Fight 28 Test point 31

Sweep, deg = 20.0 Mach = 0.76 hp, ft = 25000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 320.3 Rnpu = 2749000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9555  | 0.000                    | ***** | 0.000                      | 0.9869  |
| 0.005                       | 0.0716  | 0.005                    | ***** | 0.005                      | 0.4044  |
| 0.010                       | -0.1957 | 0.010                    | ***** | 0.010                      | 0.0902  |
| 0.020                       | -0.4666 | 0.020                    | ***** | 0.020                      | -0.2842 |
| 0.040                       | -0.7012 | 0.040                    | ***** | 0.040                      | -0.4638 |
| 0.060                       | -0.7390 | 0.060                    | ***** | 0.060                      | -0.5709 |
| 0.080                       | -0.6973 | 0.080                    | ***** | 0.080                      | -0.5935 |
| 0.100                       | -0.8466 | 0.100                    | ***** | 0.100                      | -0.6137 |
| 0.125                       | -0.7092 | 0.125                    | ***** | 0.125                      | -0.6161 |
| 0.150                       | -0.8574 | 0.150                    | ***** | 0.150                      | -0.6698 |
| 0.175                       | -0.8255 | 0.175                    | ***** | 0.175                      | -0.6776 |
| 0.200                       | -0.9026 | 0.200                    | ***** | 0.200                      | -0.7182 |
| 0.250                       | -0.9757 | 0.250                    | ***** | 0.250                      | -0.7813 |
| 0.300                       | -1.0512 | 0.300                    | ***** | 0.300                      | -0.8375 |
| 0.350                       | -1.0137 | 0.350                    | ***** | 0.350                      | -0.8953 |
| 0.400                       | -0.9922 | 0.400                    | ***** | 0.400                      | -0.9172 |
| 0.450                       | -0.5358 | 0.450                    | ***** | 0.450                      | -0.9352 |
| 0.500                       | -0.4998 | 0.500                    | ***** | 0.500                      | -0.4003 |
| 0.550                       | -0.4354 | 0.550                    | ***** | 0.550                      | -0.4307 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.5146 | 0.005 | ***** | 0.005 | 0.4487 |
| 0.010 | 0.2622 | 0.010 | ***** | 0.010 | 0.0873 |

Fight 28 Test point 32

Sweep, deg = 25.4 Mach = 0.75 hp, ft = 25000. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 308.0 Rnpu = 2689000.

| Upper surface               |         |                          |       |                            |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8664  | 0.000                    | ***** | 0.000                      | 0.9068  |
| 0.005                       | 0.0289  | 0.005                    | ***** | 0.005                      | 0.3604  |
| 0.010                       | -0.2264 | 0.010                    | ***** | 0.010                      | 0.0651  |
| 0.020                       | -0.4658 | 0.020                    | ***** | 0.020                      | -0.2759 |
| 0.040                       | -0.6358 | 0.040                    | ***** | 0.040                      | -0.4418 |
| 0.060                       | -0.6484 | 0.060                    | ***** | 0.060                      | -0.5303 |
| 0.080                       | -0.7211 | 0.080                    | ***** | 0.080                      | -0.5444 |
| 0.100                       | -0.7207 | 0.100                    | ***** | 0.100                      | -0.5602 |
| 0.125                       | -0.6404 | 0.125                    | ***** | 0.125                      | -0.5711 |
| 0.150                       | -0.7122 | 0.150                    | ***** | 0.150                      | -0.5976 |
| 0.175                       | -0.7598 | 0.175                    | ***** | 0.175                      | -0.6313 |
| 0.200                       | -0.7843 | 0.200                    | ***** | 0.200                      | -0.6234 |
| 0.250                       | -0.8434 | 0.250                    | ***** | 0.250                      | -0.6688 |
| 0.300                       | -0.7387 | 0.300                    | ***** | 0.300                      | -0.6618 |
| 0.350                       | -0.7386 | 0.350                    | ***** | 0.350                      | -0.6492 |
| 0.400                       | -0.6288 | 0.400                    | ***** | 0.400                      | -0.5907 |
| 0.450                       | -0.5370 | 0.450                    | ***** | 0.450                      | -0.5563 |
| 0.500                       | -0.5170 | 0.500                    | ***** | 0.500                      | -0.4923 |
| 0.550                       | -0.4494 | 0.550                    | ***** | 0.550                      | -0.4605 |

\*\*\* - no data

| Lower surface |        |       |       |       |        |
|---------------|--------|-------|-------|-------|--------|
| 0.005         | 0.4440 | 0.005 | ***** | 0.005 | 0.3892 |
| 0.010         | 0.2057 | 0.010 | ***** | 0.010 | 0.0164 |

Fight 28 Test point 33

Sweep, deg = 25.4 Mach = 0.75 hp, ft = 25000. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 307.8 Rnpu = 2688000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8788  | 0.000                    | ***** | 0.000                      | 0.9139  |
| 0.005                       | 0.1259  | 0.005                    | ***** | 0.005                      | 0.4314  |
| 0.010                       | -0.1280 | 0.010                    | ***** | 0.010                      | 0.1525  |
| 0.020                       | -0.3697 | 0.020                    | ***** | 0.020                      | -0.1850 |
| 0.040                       | -0.5469 | 0.040                    | ***** | 0.040                      | -0.3570 |
| 0.060                       | -0.5903 | 0.060                    | ***** | 0.060                      | -0.4460 |
| 0.080                       | -0.6637 | 0.080                    | ***** | 0.080                      | -0.4791 |
| 0.100                       | -0.6492 | 0.100                    | ***** | 0.100                      | -0.4920 |
| 0.125                       | -0.5852 | 0.125                    | ***** | 0.125                      | -0.5084 |
| 0.150                       | -0.6890 | 0.150                    | ***** | 0.150                      | -0.5408 |
| 0.175                       | -0.7356 | 0.175                    | ***** | 0.175                      | -0.5744 |
| 0.200                       | -0.7062 | 0.200                    | ***** | 0.200                      | -0.5718 |
| 0.250                       | -0.7569 | 0.250                    | ***** | 0.250                      | -0.6219 |
| 0.300                       | -0.7178 | 0.300                    | ***** | 0.300                      | -0.6132 |
| 0.350                       | -0.7183 | 0.350                    | ***** | 0.350                      | -0.6123 |
| 0.400                       | -0.6132 | 0.400                    | ***** | 0.400                      | -0.5785 |
| 0.450                       | -0.5322 | 0.450                    | ***** | 0.450                      | -0.5466 |
| 0.500                       | -0.5096 | 0.500                    | ***** | 0.500                      | -0.4918 |
| 0.550                       | -0.4394 | 0.550                    | ***** | 0.550                      | -0.4604 |

\*\*\* = no data

Lower surface

|       |        |       |       |       |         |
|-------|--------|-------|-------|-------|---------|
| 0.005 | 0.3680 | 0.005 | ***** | 0.005 | 0.2936  |
| 0.010 | 0.1183 | 0.010 | ***** | 0.010 | -0.0743 |

Fight 28 Test point 34

Sweep, deg = 25.4 Mach = 0.75 hp, ft = 25500. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 298.0 Rnpu = 2625000.

| BL 200.8<br>Inboard station |         | Upper surface<br>BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|---|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                                       | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8769  | 0.000                                     | ***** | 0.000                      | 0.9081  |
| 0.005                       | 0.1402  | 0.005                                     | ***** | 0.005                      | 0.4448  |
| 0.010                       | -0.1123 | 0.010                                     | ***** | 0.010                      | 0.1680  |
| 0.020                       | -0.3514 | 0.020                                     | ***** | 0.020                      | -0.1635 |
| 0.040                       | -0.5242 | 0.040                                     | ***** | 0.040                      | -0.3346 |
| 0.060                       | -0.5723 | 0.060                                     | ***** | 0.060                      | -0.4259 |
| 0.080                       | -0.6218 | 0.080                                     | ***** | 0.080                      | -0.4530 |
| 0.100                       | -0.6280 | 0.100                                     | ***** | 0.100                      | -0.4741 |
| 0.125                       | -0.5747 | 0.125                                     | ***** | 0.125                      | -0.4885 |
| 0.150                       | -0.6770 | 0.150                                     | ***** | 0.150                      | -0.5200 |
| 0.175                       | -0.6445 | 0.175                                     | ***** | 0.175                      | -0.5549 |
| 0.200                       | -0.7154 | 0.200                                     | ***** | 0.200                      | -0.5555 |
| 0.250                       | -0.7197 | 0.250                                     | ***** | 0.250                      | -0.5997 |
| 0.300                       | -0.7178 | 0.300                                     | ***** | 0.300                      | -0.5909 |
| 0.350                       | -0.6648 | 0.350                                     | ***** | 0.350                      | -0.5937 |
| 0.400                       | -0.5999 | 0.400                                     | ***** | 0.400                      | -0.5659 |
| 0.450                       | -0.5252 | 0.450                                     | ***** | 0.450                      | -0.5374 |
| 0.500                       | -0.5026 | 0.500                                     | ***** | 0.500                      | -0.4815 |
| 0.550                       | -0.4341 | 0.550                                     | ***** | 0.550                      | -0.4583 |

\*\*\* - no data

|       |        | Lower surface |       |       |         |
|-------|--------|---------------|-------|-------|---------|
| x/c   | Cp     | x/c           | Cp    | x/c   | Cp      |
| 0.005 | 0.3512 | 0.005         | ***** | 0.005 | 0.2722  |
| 0.010 | 0.0978 | 0.010         | ***** | 0.010 | -0.1009 |

Fight 28 Test point 35

Sweep, deg = 25.4 Mach = 0.75 hp, ft = 25100. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 308.7 Rnpu = 2689000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8647  | 0.000                    | ***** | 0.000                      | 0.8999  |
| 0.005                       | -0.0093 | 0.005                    | ***** | 0.005                      | 0.3099  |
| 0.010                       | -0.2646 | 0.010                    | ***** | 0.010                      | 0.0193  |
| 0.020                       | -0.5093 | 0.020                    | ***** | 0.020                      | -0.3286 |
| 0.040                       | -0.6836 | 0.040                    | ***** | 0.040                      | -0.4900 |
| 0.060                       | -0.6729 | 0.060                    | ***** | 0.060                      | -0.5712 |
| 0.080                       | -0.7353 | 0.080                    | ***** | 0.080                      | -0.5929 |
| 0.100                       | -0.8543 | 0.100                    | ***** | 0.100                      | -0.6032 |
| 0.125                       | -0.6952 | 0.125                    | ***** | 0.125                      | -0.6055 |
| 0.150                       | -0.7269 | 0.150                    | ***** | 0.150                      | -0.6355 |
| 0.175                       | -0.7652 | 0.175                    | ***** | 0.175                      | -0.6717 |
| 0.200                       | -0.8374 | 0.200                    | ***** | 0.200                      | -0.6605 |
| 0.250                       | -0.8304 | 0.250                    | ***** | 0.250                      | -0.7256 |
| 0.300                       | -0.8138 | 0.300                    | ***** | 0.300                      | -0.6794 |
| 0.350                       | -0.7296 | 0.350                    | ***** | 0.350                      | -0.6543 |
| 0.400                       | -0.6473 | 0.400                    | ***** | 0.400                      | -0.6018 |
| 0.450                       | -0.5541 | 0.450                    | ***** | 0.450                      | -0.5660 |
| 0.500                       | -0.5228 | 0.500                    | ***** | 0.500                      | -0.5031 |
| 0.550                       | -0.4438 | 0.550                    | ***** | 0.550                      | -0.4665 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.4703 | 0.005 | ***** | 0.005 | 0.4215 |
| 0.010 | 0.2448 | 0.010 | ***** | 0.010 | 0.0838 |

Flight 28 Test point 36

Sweep, deg = 30.4 Mach = 0.75 hp, ft = 25000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 310.5 Rnpu = 2701000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.7840  | 0.000                    | ***** | 0.000                      | 0.8117  |
| 0.005                       | 0.0202  | 0.005                    | ***** | 0.005                      | 0.2968  |
| 0.010                       | -0.2170 | 0.010                    | ***** | 0.010                      | 0.0298  |
| 0.020                       | -0.4230 | 0.020                    | ***** | 0.020                      | -0.2767 |
| 0.040                       | -0.5546 | 0.040                    | ***** | 0.040                      | -0.4200 |
| 0.060                       | -0.5938 | 0.060                    | ***** | 0.060                      | -0.4800 |
| 0.080                       | -0.6239 | 0.080                    | ***** | 0.080                      | -0.4955 |
| 0.100                       | -0.6165 | 0.100                    | ***** | 0.100                      | -0.4958 |
| 0.125                       | -0.5786 | 0.125                    | ***** | 0.125                      | -0.5035 |
| 0.150                       | -0.6825 | 0.150                    | ***** | 0.150                      | -0.5223 |
| 0.175                       | -0.6261 | 0.175                    | ***** | 0.175                      | -0.5602 |
| 0.200                       | -0.6849 | 0.200                    | ***** | 0.200                      | -0.5508 |
| 0.250                       | -0.6838 | 0.250                    | ***** | 0.250                      | -0.5756 |
| 0.300                       | -0.6648 | 0.300                    | ***** | 0.300                      | -0.5629 |
| 0.350                       | -0.6164 | 0.350                    | ***** | 0.350                      | -0.5568 |
| 0.400                       | -0.5634 | 0.400                    | ***** | 0.400                      | -0.5358 |
| 0.450                       | -0.4941 | 0.450                    | ***** | 0.450                      | -0.5022 |
| 0.500                       | -0.4781 | 0.500                    | ***** | 0.500                      | -0.4494 |
| 0.550                       | -0.4218 | 0.550                    | ***** | 0.550                      | -0.4331 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.3642 | 0.005 | ***** | 0.005 | 0.3187 |
| 0.010 | 0.1415 | 0.010 | ***** | 0.010 | 0.0018 |



Fight 28 Test point 37

Sweep, deg = 30.4 Mach = 0.75 hp, ft = 24900. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 308.4 Rnpu = 2695000.

| Upper surface               |         |                          |       |                            |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.7824  | 0.000                    | ***** | 0.000                      | 0.8159  |
| 0.005                       | 0.0141  | 0.005                    | ***** | 0.005                      | 0.2970  |
| 0.010                       | -0.2280 | 0.010                    | ***** | 0.010                      | 0.0250  |
| 0.020                       | -0.4366 | 0.020                    | ***** | 0.020                      | -0.2797 |
| 0.040                       | -0.5658 | 0.040                    | ***** | 0.040                      | -0.4203 |
| 0.060                       | -0.5887 | 0.060                    | ***** | 0.060                      | -0.4882 |
| 0.080                       | -0.6331 | 0.080                    | ***** | 0.080                      | -0.5000 |
| 0.100                       | -0.6302 | 0.100                    | ***** | 0.100                      | -0.5081 |
| 0.125                       | -0.5820 | 0.125                    | ***** | 0.125                      | -0.5028 |
| 0.150                       | -0.6792 | 0.150                    | ***** | 0.150                      | -0.5215 |
| 0.175                       | -0.6255 | 0.175                    | ***** | 0.175                      | -0.5539 |
| 0.200                       | -0.6936 | 0.200                    | ***** | 0.200                      | -0.5398 |
| 0.250                       | -0.6621 | 0.250                    | ***** | 0.250                      | -0.5744 |
| 0.300                       | -0.6581 | 0.300                    | ***** | 0.300                      | -0.5629 |
| 0.350                       | -0.6169 | 0.350                    | ***** | 0.350                      | -0.5601 |
| 0.400                       | -0.5620 | 0.400                    | ***** | 0.400                      | -0.5380 |
| 0.450                       | -0.4965 | 0.450                    | ***** | 0.450                      | -0.5000 |
| 0.500                       | -0.4709 | 0.500                    | ***** | 0.500                      | -0.4559 |
| 0.550                       | -0.4129 | 0.550                    | ***** | 0.550                      | -0.4407 |

\*\*\* - no data

| Lower surface |        |       |       |       |        |
|---------------|--------|-------|-------|-------|--------|
| 0.005         | 0.3716 | 0.005 | ***** | 0.005 | 0.3304 |
| 0.010         | 0.1569 | 0.010 | ***** | 0.010 | 0.0122 |

Fight 28 Test point 38

Sweep, deg = 30.4 Mach = 0.75 hp, ft = 24700. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 314.1 Rnpu = 2727000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.7875  | 0.000                    | ***** | 0.000                      | 0.8207  |
| 0.005                       | 0.0578  | 0.005                    | ***** | 0.005                      | 0.3369  |
| 0.010                       | -0.1735 | 0.010                    | ***** | 0.010                      | 0.0804  |
| 0.020                       | -0.3683 | 0.020                    | ***** | 0.020                      | -0.2295 |
| 0.040                       | -0.5313 | 0.040                    | ***** | 0.040                      | -0.3766 |
| 0.060                       | -0.5503 | 0.060                    | ***** | 0.060                      | -0.4449 |
| 0.080                       | -0.5960 | 0.080                    | ***** | 0.080                      | -0.4664 |
| 0.100                       | -0.6000 | 0.100                    | ***** | 0.100                      | -0.4746 |
| 0.125                       | -0.5590 | 0.125                    | ***** | 0.125                      | -0.4826 |
| 0.150                       | -0.6478 | 0.150                    | ***** | 0.150                      | -0.5027 |
| 0.175                       | -0.6149 | 0.175                    | ***** | 0.175                      | -0.5347 |
| 0.200                       | -0.6708 | 0.200                    | ***** | 0.200                      | -0.5266 |
| 0.250                       | -0.6520 | 0.250                    | ***** | 0.250                      | -0.5611 |
| 0.300                       | -0.6508 | 0.300                    | ***** | 0.300                      | -0.5520 |
| 0.350                       | -0.6104 | 0.350                    | ***** | 0.350                      | -0.5500 |
| 0.400                       | -0.5571 | 0.400                    | ***** | 0.400                      | -0.5228 |
| 0.450                       | -0.4916 | 0.450                    | ***** | 0.450                      | -0.4929 |
| 0.500                       | -0.4750 | 0.500                    | ***** | 0.500                      | -0.4444 |
| 0.550                       | -0.4083 | 0.550                    | ***** | 0.550                      | -0.4323 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |         |
|-------|--------|-------|-------|-------|---------|
| 0.005 | 0.3416 | 0.005 | ***** | 0.005 | 0.2871  |
| 0.010 | 0.1208 | 0.010 | ***** | 0.010 | -0.0378 |

Fight 28 Test point 39

Sweep, deg = 30.1 Mach = 0.75 hp, ft = 25000. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 312.6 Rnpu = 2713000.

| Upper surface               |         |                          |       |                            |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.7664  | 0.000                    | ***** | 0.000                      | 0.8086  |
| 0.005                       | -0.1306 | 0.005                    | ***** | 0.005                      | 0.1835  |
| 0.010                       | -0.3691 | 0.010                    | ***** | 0.010                      | -0.1087 |
| 0.020                       | -0.5886 | 0.020                    | ***** | 0.020                      | -0.4432 |
| 0.040                       | -0.7369 | 0.040                    | ***** | 0.040                      | -0.5666 |
| 0.060                       | -0.6909 | 0.060                    | ***** | 0.060                      | -0.6250 |
| 0.080                       | -0.7729 | 0.080                    | ***** | 0.080                      | -0.6306 |
| 0.100                       | -0.8302 | 0.100                    | ***** | 0.100                      | -0.6345 |
| 0.125                       | -0.6896 | 0.125                    | ***** | 0.125                      | -0.6157 |
| 0.150                       | -0.7124 | 0.150                    | ***** | 0.150                      | -0.6245 |
| 0.175                       | -0.7798 | 0.175                    | ***** | 0.175                      | -0.6578 |
| 0.200                       | -0.8049 | 0.200                    | ***** | 0.200                      | -0.6450 |
| 0.250                       | -0.7609 | 0.250                    | ***** | 0.250                      | -0.6654 |
| 0.300                       | -0.7269 | 0.300                    | ***** | 0.300                      | -0.6294 |
| 0.350                       | -0.7154 | 0.350                    | ***** | 0.350                      | -0.6175 |
| 0.400                       | -0.6096 | 0.400                    | ***** | 0.400                      | -0.5673 |
| 0.450                       | -0.5302 | 0.450                    | ***** | 0.450                      | -0.5280 |
| 0.500                       | -0.4986 | 0.500                    | ***** | 0.500                      | -0.4755 |
| 0.550                       | -0.4264 | 0.550                    | ***** | 0.550                      | -0.4585 |

\*\*\* - no data

| Lower surface |        |       |       |       |        |
|---------------|--------|-------|-------|-------|--------|
| 0.005         | 0.4732 | 0.005 | ***** | 0.005 | 0.4503 |
| 0.010         | 0.2731 | 0.010 | ***** | 0.010 | 0.1614 |

Fight 28 Test point 40

Sweep, deg = 35.4 Mach = 0.75 hp, ft = 25000. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 311.7 Rrho = 2708000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.6802  | 0.000                    | ***** | 0.000                      | 0.7110  |
| 0.005                       | -0.0780 | 0.005                    | ***** | 0.005                      | 0.1885  |
| 0.010                       | -0.2867 | 0.010                    | ***** | 0.010                      | -0.0623 |
| 0.020                       | -0.4758 | 0.020                    | ***** | 0.020                      | -0.3358 |
| 0.040                       | -0.5651 | 0.040                    | ***** | 0.040                      | -0.4471 |
| 0.060                       | -0.5936 | 0.060                    | ***** | 0.060                      | -0.4910 |
| 0.080                       | -0.6028 | 0.080                    | ***** | 0.080                      | -0.4956 |
| 0.100                       | -0.5948 | 0.100                    | ***** | 0.100                      | -0.4960 |
| 0.125                       | -0.5457 | 0.125                    | ***** | 0.125                      | -0.4923 |
| 0.150                       | -0.6003 | 0.150                    | ***** | 0.150                      | -0.5067 |
| 0.175                       | -0.5842 | 0.175                    | ***** | 0.175                      | -0.5178 |
| 0.200                       | -0.6310 | 0.200                    | ***** | 0.200                      | -0.5126 |
| 0.250                       | -0.6081 | 0.250                    | ***** | 0.250                      | -0.5380 |
| 0.300                       | -0.5929 | 0.300                    | ***** | 0.300                      | -0.5092 |
| 0.350                       | -0.5618 | 0.350                    | ***** | 0.350                      | -0.5091 |
| 0.400                       | -0.5108 | 0.400                    | ***** | 0.400                      | -0.4827 |
| 0.450                       | -0.4430 | 0.450                    | ***** | 0.450                      | -0.4500 |
| 0.500                       | -0.4403 | 0.500                    | ***** | 0.500                      | -0.4133 |
| 0.550                       | -0.3786 | 0.550                    | ***** | 0.550                      | -0.4066 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.3709 | 0.005 | ***** | 0.005 | 0.3375 |
| 0.010 | 0.1765 | 0.010 | ***** | 0.010 | 0.0769 |

Fight 28 Test point 41

Sweep, deg = 35.4 Mach = 0.75 hp, ft = 24900. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 313.4 Rnpu = 2717000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.6817  | 0.000                    | ***** | 0.000                      | 0.7158  |
| 0.005                       | -0.0750 | 0.005                    | ***** | 0.005                      | 0.1878  |
| 0.010                       | -0.2877 | 0.010                    | ***** | 0.010                      | -0.0650 |
| 0.020                       | -0.4681 | 0.020                    | ***** | 0.020                      | -0.3359 |
| 0.040                       | -0.5718 | 0.040                    | ***** | 0.040                      | -0.4465 |
| 0.060                       | -0.5985 | 0.060                    | ***** | 0.060                      | -0.4891 |
| 0.080                       | -0.6068 | 0.080                    | ***** | 0.080                      | -0.4941 |
| 0.100                       | -0.5995 | 0.100                    | ***** | 0.100                      | -0.4952 |
| 0.125                       | -0.5570 | 0.125                    | ***** | 0.125                      | -0.4959 |
| 0.150                       | -0.5997 | 0.150                    | ***** | 0.150                      | -0.5066 |
| 0.175                       | -0.5866 | 0.175                    | ***** | 0.175                      | -0.5246 |
| 0.200                       | -0.6249 | 0.200                    | ***** | 0.200                      | -0.5129 |
| 0.250                       | -0.6198 | 0.250                    | ***** | 0.250                      | -0.5322 |
| 0.300                       | -0.5987 | 0.300                    | ***** | 0.300                      | -0.5164 |
| 0.350                       | -0.5639 | 0.350                    | ***** | 0.350                      | -0.5072 |
| 0.400                       | -0.5143 | 0.400                    | ***** | 0.400                      | -0.4830 |
| 0.450                       | -0.4534 | 0.450                    | ***** | 0.450                      | -0.4549 |
| 0.500                       | -0.4392 | 0.500                    | ***** | 0.500                      | -0.4161 |
| 0.550                       | -0.3846 | 0.550                    | ***** | 0.550                      | -0.4103 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.3690 | 0.005 | ***** | 0.005 | 0.3447 |
| 0.010 | 0.1807 | 0.010 | ***** | 0.010 | 0.0810 |

Fight 28 Test point 42

Sweep, deg = 35.5 Mach = 0.75 hp, ft = 25600. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 300.2 Rnpu = 2635000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.6942  | 0.000                    | ***** | 0.000                      | 0.7250  |
| 0.005                       | 0.0528  | 0.005                    | ***** | 0.005                      | 0.3002  |
| 0.010                       | -0.1532 | 0.010                    | ***** | 0.010                      | 0.0671  |
| 0.020                       | -0.3349 | 0.020                    | ***** | 0.020                      | -0.1937 |
| 0.040                       | -0.4594 | 0.040                    | ***** | 0.040                      | -0.3215 |
| 0.060                       | -0.4911 | 0.060                    | ***** | 0.060                      | -0.3782 |
| 0.080                       | -0.5112 | 0.080                    | ***** | 0.080                      | -0.3962 |
| 0.100                       | -0.5138 | 0.100                    | ***** | 0.100                      | -0.4082 |
| 0.125                       | -0.4815 | 0.125                    | ***** | 0.125                      | -0.4102 |
| 0.150                       | -0.5279 | 0.150                    | ***** | 0.150                      | -0.4328 |
| 0.175                       | -0.5232 | 0.175                    | ***** | 0.175                      | -0.4480 |
| 0.200                       | -0.5630 | 0.200                    | ***** | 0.200                      | -0.4445 |
| 0.250                       | -0.5554 | 0.250                    | ***** | 0.250                      | -0.4710 |
| 0.300                       | -0.5430 | 0.300                    | ***** | 0.300                      | -0.4644 |
| 0.350                       | -0.5141 | 0.350                    | ***** | 0.350                      | -0.4606 |
| 0.400                       | -0.4790 | 0.400                    | ***** | 0.400                      | -0.4478 |
| 0.450                       | -0.4256 | 0.450                    | ***** | 0.450                      | -0.4259 |
| 0.500                       | -0.4170 | 0.500                    | ***** | 0.500                      | -0.3934 |
| 0.550                       | -0.3667 | 0.550                    | ***** | 0.550                      | -0.3941 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |         |
|-------|--------|-------|-------|-------|---------|
| 0.005 | 0.2749 | 0.005 | ***** | 0.005 | 0.2310  |
| 0.010 | 0.0748 | 0.010 | ***** | 0.010 | -0.0600 |

Fight 28 Test point 43

Sweep, deg = 35.6 Mach = 0.76 hp, ft = 24800. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 316.6 Rnpu = 2737000.

| BL 200.8<br>Inboard station |         | Upper surface<br>BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|---|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                                       | Cp    | x/c                        | Cp      |
| 0.000                       | 0.6887  | 0.000                                     | ***** | 0.000                      | 0.7107  |
| 0.005                       | -0.1343 | 0.005                                     | ***** | 0.005                      | 0.1362  |
| 0.010                       | -0.3514 | 0.010                                     | ***** | 0.010                      | -0.1222 |
| 0.020                       | -0.5338 | 0.020                                     | ***** | 0.020                      | -0.4025 |
| 0.040                       | -0.6253 | 0.040                                     | ***** | 0.040                      | -0.4994 |
| 0.060                       | -0.6404 | 0.060                                     | ***** | 0.060                      | -0.5416 |
| 0.080                       | -0.6653 | 0.080                                     | ***** | 0.080                      | -0.5411 |
| 0.100                       | -0.6275 | 0.100                                     | ***** | 0.100                      | -0.5411 |
| 0.125                       | -0.5817 | 0.125                                     | ***** | 0.125                      | -0.5278 |
| 0.150                       | -0.6403 | 0.150                                     | ***** | 0.150                      | -0.5334 |
| 0.175                       | -0.6115 | 0.175                                     | ***** | 0.175                      | -0.5539 |
| 0.200                       | -0.6501 | 0.200                                     | ***** | 0.200                      | -0.5409 |
| 0.250                       | -0.6364 | 0.250                                     | ***** | 0.250                      | -0.5566 |
| 0.300                       | -0.6158 | 0.300                                     | ***** | 0.300                      | -0.5378 |
| 0.350                       | -0.5769 | 0.350                                     | ***** | 0.350                      | -0.5248 |
| 0.400                       | -0.5239 | 0.400                                     | ***** | 0.400                      | -0.4926 |
| 0.450                       | -0.4664 | 0.450                                     | ***** | 0.450                      | -0.4624 |
| 0.500                       | -0.4448 | 0.500                                     | ***** | 0.500                      | -0.4210 |
| 0.550                       | -0.3864 | 0.550                                     | ***** | 0.550                      | -0.4124 |

\*\*\* - no data

|       |        | Lower surface |       |       |        |
|-------|--------|---------------|-------|-------|--------|
| x/c   | Cp     | x/c           | Cp    | x/c   | Cp     |
| 0.005 | 0.4098 | 0.005         | ***** | 0.005 | 0.3871 |
| 0.010 | 0.2244 | 0.010         | ***** | 0.010 | 0.1328 |

Fight 29 Test point 1

Sweep, deg = 23.5 Mach = 0.60 hp, ft = 10000. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 367.2 Rnpu = 3545000.

| Upper surface               |         |                          |       |                            |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8730  | 0.000                    | ***** | 0.000                      | 0.9100  |
| 0.005                       | 0.0008  | 0.005                    | ***** | 0.005                      | 0.3835  |
| 0.010                       | -0.2547 | 0.010                    | ***** | 0.010                      | 0.0995  |
| 0.020                       | -0.4623 | 0.020                    | ***** | 0.020                      | -0.2225 |
| 0.040                       | -0.5714 | 0.040                    | ***** | 0.040                      | -0.3530 |
| 0.060                       | -0.5759 | 0.060                    | ***** | 0.060                      | -0.4118 |
| 0.080                       | -0.5926 | 0.080                    | ***** | 0.080                      | -0.4251 |
| 0.100                       | -0.5930 | 0.100                    | ***** | 0.100                      | -0.4330 |
| 0.125                       | -0.5303 | 0.125                    | ***** | 0.125                      | -0.4361 |
| 0.150                       | -0.5938 | 0.150                    | ***** | 0.150                      | -0.4495 |
| 0.175                       | -0.5761 | 0.175                    | ***** | 0.175                      | -0.4571 |
| 0.200                       | -0.6117 | 0.200                    | ***** | 0.200                      | -0.4550 |
| 0.250                       | -0.6040 | 0.250                    | ***** | 0.250                      | -0.4868 |
| 0.300                       | -0.5901 | 0.300                    | ***** | 0.300                      | -0.4816 |
| 0.350                       | -0.5462 | 0.350                    | ***** | 0.350                      | -0.4864 |
| 0.400                       | -0.5018 | 0.400                    | ***** | 0.400                      | -0.4794 |
| 0.450                       | -0.4527 | 0.450                    | ***** | 0.450                      | -0.4600 |
| 0.500                       | -0.4424 | 0.500                    | ***** | 0.500                      | -0.4386 |
| 0.550                       | -0.3916 | 0.550                    | ***** | 0.550                      | -0.4493 |

\*\*\* - no data

| Lower surface |        |       |       |       |         |
|---------------|--------|-------|-------|-------|---------|
| 0.005         | 0.3927 | 0.005 | ***** | 0.005 | 0.2648  |
| 0.010         | 0.1462 | 0.010 | ***** | 0.010 | -0.1007 |



Fight 29 Test point 2

Sweep, deg = 23.5 Mach = 0.60 hp, ft = 10100. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 368.0 Rrho = 3543000.

| Upper surface               |         |                          |       |                            |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 326<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8790  | 0.000                    | ***** | 0.000                      | 0.9031  |
| 0.005                       | 0.1974  | 0.005                    | ***** | 0.005                      | 0.5332  |
| 0.010                       | -0.0544 | 0.010                    | ***** | 0.010                      | 0.2728  |
| 0.020                       | -0.2770 | 0.020                    | ***** | 0.020                      | -0.0477 |
| 0.040                       | -0.4233 | 0.040                    | ***** | 0.040                      | -0.2115 |
| 0.060                       | -0.4597 | 0.060                    | ***** | 0.060                      | -0.2928 |
| 0.080                       | -0.4838 | 0.080                    | ***** | 0.080                      | -0.3171 |
| 0.100                       | -0.4849 | 0.100                    | ***** | 0.100                      | -0.3348 |
| 0.125                       | -0.4502 | 0.125                    | ***** | 0.125                      | -0.3493 |
| 0.150                       | -0.5146 | 0.150                    | ***** | 0.150                      | -0.3694 |
| 0.175                       | -0.5104 | 0.175                    | ***** | 0.175                      | -0.3866 |
| 0.200                       | -0.5446 | 0.200                    | ***** | 0.200                      | -0.3917 |
| 0.250                       | -0.5485 | 0.250                    | ***** | 0.250                      | -0.4326 |
| 0.300                       | -0.5373 | 0.300                    | ***** | 0.300                      | -0.4342 |
| 0.350                       | -0.5026 | 0.350                    | ***** | 0.350                      | -0.4428 |
| 0.400                       | -0.4662 | 0.400                    | ***** | 0.400                      | -0.4426 |
| 0.450                       | -0.4265 | 0.450                    | ***** | 0.450                      | -0.4298 |
| 0.500                       | -0.4213 | 0.500                    | ***** | 0.500                      | -0.4169 |
| 0.550                       | -0.3740 | 0.550                    | ***** | 0.550                      | -0.4352 |

\*\*\* - no data

| Lower surface |         |       |       |       |         |
|---------------|---------|-------|-------|-------|---------|
| 0.005         | 0.2274  | 0.005 | ***** | 0.005 | 0.0661  |
| 0.010         | -0.0331 | 0.010 | ***** | 0.010 | -0.3368 |

Fight 29 Test point 3

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 498.5 Rnpu = 4180000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8709  | 0.000                    | ***** | 0.000                      | 0.8936  |
| 0.005                       | 0.2286  | 0.005                    | ***** | 0.005                      | 0.5289  |
| 0.010                       | -0.0215 | 0.010                    | ***** | 0.010                      | 0.2804  |
| 0.020                       | -0.2565 | 0.020                    | ***** | 0.020                      | -0.0366 |
| 0.040                       | -0.4165 | 0.040                    | ***** | 0.040                      | -0.2055 |
| 0.060                       | -0.4613 | 0.060                    | ***** | 0.060                      | -0.3010 |
| 0.080                       | -0.5074 | 0.080                    | ***** | 0.080                      | -0.3380 |
| 0.100                       | -0.5326 | 0.100                    | ***** | 0.100                      | -0.3627 |
| 0.125                       | -0.4934 | 0.125                    | ***** | 0.125                      | -0.3815 |
| 0.150                       | -0.5660 | 0.150                    | ***** | 0.150                      | -0.4099 |
| 0.175                       | -0.5577 | 0.175                    | ***** | 0.175                      | -0.4376 |
| 0.200                       | -0.6038 | 0.200                    | ***** | 0.200                      | -0.4460 |
| 0.250                       | -0.6114 | 0.250                    | ***** | 0.250                      | -0.4916 |
| 0.300                       | -0.6045 | 0.300                    | ***** | 0.300                      | -0.4983 |
| 0.350                       | -0.5663 | 0.350                    | ***** | 0.350                      | -0.5066 |
| 0.400                       | -0.5227 | 0.400                    | ***** | 0.400                      | -0.4940 |
| 0.450                       | -0.4737 | 0.450                    | ***** | 0.450                      | -0.4771 |
| 0.500                       | -0.4594 | 0.500                    | ***** | 0.500                      | -0.4495 |
| 0.550                       | -0.4097 | 0.550                    | ***** | 0.550                      | -0.4522 |

\*\*\* - no data

Lower surface

|       |         |       |            |       |         |
|-------|---------|-------|------------|-------|---------|
| 0.005 | 0.2347  | 0.005 | *****      | 0.005 | 0.1130  |
| 0.010 | -0.0252 | 0.010 | ***, ***** | 0.010 | -0.2767 |

Flight 29 Test point 4

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 10300. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 492.9 Rnpu = 4133000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8776  | 0.000                    | ***** | 0.000                      | 0.9029  |
| 0.005                       | 0.1369  | 0.005                    | ***** | 0.005                      | 0.4535  |
| 0.010                       | -0.1208 | 0.010                    | ***** | 0.010                      | 0.1854  |
| 0.020                       | -0.3527 | 0.020                    | ***** | 0.020                      | -0.1362 |
| 0.040                       | -0.5073 | 0.040                    | ***** | 0.040                      | -0.2952 |
| 0.060                       | -0.5449 | 0.060                    | ***** | 0.060                      | -0.3769 |
| 0.080                       | -0.5815 | 0.080                    | ***** | 0.080                      | -0.4057 |
| 0.100                       | -0.6048 | 0.100                    | ***** | 0.100                      | -0.4246 |
| 0.125                       | -0.5455 | 0.125                    | ***** | 0.125                      | -0.4370 |
| 0.150                       | -0.6209 | 0.150                    | ***** | 0.150                      | -0.4611 |
| 0.175                       | -0.6072 | 0.175                    | ***** | 0.175                      | -0.4861 |
| 0.200                       | -0.6523 | 0.200                    | ***** | 0.200                      | -0.4905 |
| 0.250                       | -0.6527 | 0.250                    | ***** | 0.250                      | -0.5320 |
| 0.300                       | -0.6433 | 0.300                    | ***** | 0.300                      | -0.5323 |
| 0.350                       | -0.5948 | 0.350                    | ***** | 0.350                      | -0.5352 |
| 0.400                       | -0.5463 | 0.400                    | ***** | 0.400                      | -0.5216 |
| 0.450                       | -0.4910 | 0.450                    | ***** | 0.450                      | -0.4960 |
| 0.500                       | -0.4756 | 0.500                    | ***** | 0.500                      | -0.4650 |
| 0.550                       | -0.4199 | 0.550                    | ***** | 0.550                      | -0.4631 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |         |
|-------|--------|-------|-------|-------|---------|
| 0.005 | 0.3422 | 0.005 | ***** | 0.005 | 0.2236  |
| 0.010 | 0.0940 | 0.010 | ***** | 0.010 | -0.1464 |

Fight 29 Test point 5

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 10400. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 492.1 Rnpu = 4111000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8778  | 0.000                    | ***** | 0.000                      | 0.8989  |
| 0.005                       | 0.1423  | 0.005                    | ***** | 0.005                      | 0.4557  |
| 0.010                       | -0.1122 | 0.010                    | ***** | 0.010                      | 0.1891  |
| 0.020                       | -0.3445 | 0.020                    | ***** | 0.020                      | -0.1382 |
| 0.040                       | -0.5004 | 0.040                    | ***** | 0.040                      | -0.2964 |
| 0.060                       | -0.5338 | 0.060                    | ***** | 0.060                      | -0.3815 |
| 0.080                       | -0.5728 | 0.080                    | ***** | 0.080                      | -0.4037 |
| 0.100                       | -0.6013 | 0.100                    | ***** | 0.100                      | -0.4230 |
| 0.125                       | -0.5409 | 0.125                    | ***** | 0.125                      | -0.4313 |
| 0.150                       | -0.6151 | 0.150                    | ***** | 0.150                      | -0.4569 |
| 0.175                       | -0.6037 | 0.175                    | ***** | 0.175                      | -0.4835 |
| 0.200                       | -0.6491 | 0.200                    | ***** | 0.200                      | -0.4874 |
| 0.250                       | -0.6509 | 0.250                    | ***** | 0.250                      | -0.5286 |
| 0.300                       | -0.6426 | 0.300                    | ***** | 0.300                      | -0.5287 |
| 0.350                       | -0.5944 | 0.350                    | ***** | 0.350                      | -0.5364 |
| 0.400                       | -0.5436 | 0.400                    | ***** | 0.400                      | -0.5207 |
| 0.450                       | -0.4892 | 0.450                    | ***** | 0.450                      | -0.4963 |
| 0.500                       | -0.4753 | 0.500                    | ***** | 0.500                      | -0.4632 |
| 0.550                       | -0.4205 | 0.550                    | ***** | 0.550                      | -0.4605 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |         |
|-------|--------|-------|-------|-------|---------|
| 0.005 | 0.3347 | 0.005 | ***** | 0.005 | 0.2185  |
| 0.010 | 0.0859 | 0.010 | ***** | 0.010 | -0.1540 |

Flight 29 Test point 6

Sweep, deg = 20.1 Mach = 0.70 hp, ft = 10400. Angle of attack, deg = -0.1  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 491.6 Rnpu = 4113000.

| Upper surface               |         |                          |       |                            |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9475  | 0.000                    | ***** | 0.000                      | 0.9670  |
| 0.005                       | 0.2952  | 0.005                    | ***** | 0.005                      | 0.6063  |
| 0.010                       | 0.0251  | 0.010                    | ***** | 0.010                      | 0.3434  |
| 0.020                       | -0.2338 | 0.020                    | ***** | 0.020                      | -0.0029 |
| 0.040                       | -0.4265 | 0.040                    | ***** | 0.040                      | -0.1960 |
| 0.060                       | -0.4861 | 0.060                    | ***** | 0.060                      | -0.3021 |
| 0.080                       | -0.5156 | 0.080                    | ***** | 0.080                      | -0.3429 |
| 0.100                       | -0.5505 | 0.100                    | ***** | 0.100                      | -0.3733 |
| 0.125                       | -0.5207 | 0.125                    | ***** | 0.125                      | -0.3954 |
| 0.150                       | -0.6007 | 0.150                    | ***** | 0.150                      | -0.4310 |
| 0.175                       | -0.5973 | 0.175                    | ***** | 0.175                      | -0.4589 |
| 0.200                       | -0.6500 | 0.200                    | ***** | 0.200                      | -0.4768 |
| 0.250                       | -0.6603 | 0.250                    | ***** | 0.250                      | -0.5160 |
| 0.300                       | -0.6564 | 0.300                    | ***** | 0.300                      | -0.5276 |
| 0.350                       | -0.6088 | 0.350                    | ***** | 0.350                      | -0.5414 |
| 0.400                       | -0.5607 | 0.400                    | ***** | 0.400                      | -0.5304 |
| 0.450                       | -0.5037 | 0.450                    | ***** | 0.450                      | -0.5129 |
| 0.500                       | -0.4883 | 0.500                    | ***** | 0.500                      | -0.4807 |
| 0.550                       | -0.4325 | 0.550                    | ***** | 0.550                      | -0.4735 |

\*\*\* - no data

| Lower surface |         |       |       |       |         |
|---------------|---------|-------|-------|-------|---------|
| 0.005         | 0.2457  | 0.005 | ***** | 0.005 | 0.1070  |
| 0.010         | -0.0365 | 0.010 | ***** | 0.010 | -0.3330 |

Fight 29 Test point 7

Sweep, deg = 20.1 Mach = 0.69 hp, ft = 10400. Angle of attack, deg = -0.1  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 481.5 Rnpu = 4074000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9487  | 0.000                    | ***** | 0.000                      | 0.9657  |
| 0.005                       | 0.3103  | 0.005                    | ***** | 0.005                      | 0.6219  |
| 0.010                       | 0.0414  | 0.010                    | ***** | 0.010                      | 0.3604  |
| 0.020                       | -0.2159 | 0.020                    | ***** | 0.020                      | 0.0147  |
| 0.040                       | -0.4093 | 0.040                    | ***** | 0.040                      | -0.1779 |
| 0.060                       | -0.4696 | 0.060                    | ***** | 0.060                      | -0.2882 |
| 0.080                       | -0.5009 | 0.080                    | ***** | 0.080                      | -0.3282 |
| 0.100                       | -0.5352 | 0.100                    | ***** | 0.100                      | -0.3563 |
| 0.125                       | -0.5048 | 0.125                    | ***** | 0.125                      | -0.3808 |
| 0.150                       | -0.5814 | 0.150                    | ***** | 0.150                      | -0.4171 |
| 0.175                       | -0.5788 | 0.175                    | ***** | 0.175                      | -0.4451 |
| 0.200                       | -0.6321 | 0.200                    | ***** | 0.200                      | -0.4607 |
| 0.250                       | -0.6410 | 0.250                    | ***** | 0.250                      | -0.5037 |
| 0.300                       | -0.6394 | 0.300                    | ***** | 0.300                      | -0.5099 |
| 0.350                       | -0.5934 | 0.350                    | ***** | 0.350                      | -0.5280 |
| 0.400                       | -0.5450 | 0.400                    | ***** | 0.400                      | -0.5191 |
| 0.450                       | -0.4920 | 0.450                    | ***** | 0.450                      | -0.5023 |
| 0.500                       | -0.4771 | 0.500                    | ***** | 0.500                      | -0.4719 |
| 0.550                       | -0.4261 | 0.550                    | ***** | 0.550                      | -0.4675 |

\*\*\* - no data

Lower surface

|       |         |       |       |       |         |
|-------|---------|-------|-------|-------|---------|
| 0.005 | 0.2265  | 0.005 | ***** | 0.005 | 0.0809  |
| 0.010 | -0.0571 | 0.010 | ***** | 0.010 | -0.3656 |

Fight 29 Test point 8

Sweep, deg = 20.1 Mach = 0.71 hp, ft = 10200. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 504.2 Rnpu = 4187000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9524  | 0.000                    | ***** | 0.000                      | 0.9776  |
| 0.005                       | 0.1675  | 0.005                    | ***** | 0.005                      | 0.5143  |
| 0.010                       | -0.1052 | 0.010                    | ***** | 0.010                      | 0.2297  |
| 0.020                       | -0.3639 | 0.020                    | ***** | 0.020                      | -0.1268 |
| 0.040                       | -0.5473 | 0.040                    | ***** | 0.040                      | -0.3079 |
| 0.060                       | -0.5920 | 0.060                    | ***** | 0.060                      | -0.4043 |
| 0.080                       | -0.6070 | 0.080                    | ***** | 0.080                      | -0.4341 |
| 0.100                       | -0.6496 | 0.100                    | ***** | 0.100                      | -0.4590 |
| 0.125                       | -0.5937 | 0.125                    | ***** | 0.125                      | -0.4699 |
| 0.150                       | -0.6815 | 0.150                    | ***** | 0.150                      | -0.5016 |
| 0.175                       | -0.6644 | 0.175                    | ***** | 0.175                      | -0.5268 |
| 0.200                       | -0.7245 | 0.200                    | ***** | 0.200                      | -0.5398 |
| 0.250                       | -0.7256 | 0.250                    | ***** | 0.250                      | -0.5748 |
| 0.300                       | -0.7119 | 0.300                    | ***** | 0.300                      | -0.5817 |
| 0.350                       | -0.6549 | 0.350                    | ***** | 0.350                      | -0.5878 |
| 0.400                       | -0.5937 | 0.400                    | ***** | 0.400                      | -0.5681 |
| 0.450                       | -0.5289 | 0.450                    | ***** | 0.450                      | -0.5425 |
| 0.500                       | -0.5097 | 0.500                    | ***** | 0.500                      | -0.4988 |
| 0.550                       | -0.4479 | 0.550                    | ***** | 0.550                      | -0.4847 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |         |
|-------|--------|-------|-------|-------|---------|
| 0.005 | 0.3703 | 0.005 | ***** | 0.005 | 0.2439  |
| 0.010 | 0.0994 | 0.010 | ***** | 0.010 | -0.1628 |

Fight 29 Test point 9

Sweep, deg = 20.1 Mach = 0.71 hp, ft = 10800. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 490.2 Rnpu = 4082000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 1.0058  | 0.000                    | ***** | 0.000                      | 1.0307  |
| 0.005                       | 0.2403  | 0.005                    | ***** | 0.005                      | 0.6038  |
| 0.010                       | -0.0433 | 0.010                    | ***** | 0.010                      | 0.3221  |
| 0.020                       | -0.3094 | 0.020                    | ***** | 0.020                      | -0.0452 |
| 0.040                       | -0.5091 | 0.040                    | ***** | 0.040                      | -0.2364 |
| 0.060                       | -0.5646 | 0.060                    | ***** | 0.060                      | -0.3419 |
| 0.080                       | -0.5960 | 0.080                    | ***** | 0.080                      | -0.3814 |
| 0.100                       | -0.6328 | 0.100                    | ***** | 0.100                      | -0.4084 |
| 0.125                       | -0.5818 | 0.125                    | ***** | 0.125                      | -0.4283 |
| 0.150                       | -0.6759 | 0.150                    | ***** | 0.150                      | -0.4652 |
| 0.175                       | -0.6606 | 0.175                    | ***** | 0.175                      | -0.4942 |
| 0.200                       | -0.7240 | 0.200                    | ***** | 0.200                      | -0.5093 |
| 0.250                       | -0.7287 | 0.250                    | ***** | 0.250                      | -0.5616 |
| 0.300                       | -0.7120 | 0.300                    | ***** | 0.300                      | -0.5765 |
| 0.350                       | -0.6477 | 0.350                    | ***** | 0.350                      | -0.5865 |
| 0.400                       | -0.5882 | 0.400                    | ***** | 0.400                      | -0.5702 |
| 0.450                       | -0.5203 | 0.450                    | ***** | 0.450                      | -0.5261 |
| 0.500                       | -0.5013 | 0.500                    | ***** | 0.500                      | -0.4895 |
| 0.550                       | -0.4371 | 0.550                    | ***** | 0.550                      | -0.4665 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |         |
|-------|--------|-------|-------|-------|---------|
| 0.005 | 0.3712 | 0.005 | ***** | 0.005 | 0.2170  |
| 0.010 | 0.0876 | 0.010 | ***** | 0.010 | -0.2181 |



Fight 29 Test point 10

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 20100. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 334.2 Rnpu = 2983000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8703  | 0.000                    | ***** | 0.000                      | 0.9112  |
| 0.005                       | 0.0271  | 0.005                    | ***** | 0.005                      | 0.3724  |
| 0.010                       | -0.2298 | 0.010                    | ***** | 0.010                      | 0.0851  |
| 0.020                       | -0.4680 | 0.020                    | ***** | 0.020                      | -0.2523 |
| 0.040                       | -0.6148 | 0.040                    | ***** | 0.040                      | -0.4037 |
| 0.060                       | -0.6393 | 0.060                    | ***** | 0.060                      | -0.4772 |
| 0.080                       | -0.6532 | 0.080                    | ***** | 0.080                      | -0.4948 |
| 0.100                       | -0.6730 | 0.100                    | ***** | 0.100                      | -0.5040 |
| 0.125                       | -0.5995 | 0.125                    | ***** | 0.125                      | -0.5116 |
| 0.150                       | -0.6814 | 0.150                    | ***** | 0.150                      | -0.5245 |
| 0.175                       | -0.6601 | 0.175                    | ***** | 0.175                      | -0.5490 |
| 0.200                       | -0.7080 | 0.200                    | ***** | 0.200                      | -0.5438 |
| 0.250                       | -0.7035 | 0.250                    | ***** | 0.250                      | -0.5805 |
| 0.300                       | -0.6868 | 0.300                    | ***** | 0.300                      | -0.5764 |
| 0.350                       | -0.6318 | 0.350                    | ***** | 0.350                      | -0.5712 |
| 0.400                       | -0.5752 | 0.400                    | ***** | 0.400                      | -0.5532 |
| 0.450                       | -0.5103 | 0.450                    | ***** | 0.450                      | -0.5222 |
| 0.500                       | -0.4949 | 0.500                    | ***** | 0.500                      | -0.4836 |
| 0.550                       | -0.4293 | 0.550                    | ***** | 0.550                      | -0.4726 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |         |
|-------|--------|-------|-------|-------|---------|
| 0.005 | 0.4117 | 0.005 | ***** | 0.005 | 0.3272  |
| 0.010 | 0.1666 | 0.010 | ***** | 0.010 | -0.0317 |

Flight 29 Test point 11

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 19900. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 334.7 Rnpu = 2986000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8581  | 0.000                    | ***** | 0.000                      | 0.9050  |
| 0.005                       | -0.0771 | 0.005                    | ***** | 0.005                      | 0.2903  |
| 0.010                       | -0.3396 | 0.010                    | ***** | 0.010                      | -0.0134 |
| 0.020                       | -0.5762 | 0.020                    | ***** | 0.020                      | -0.3580 |
| 0.040                       | -0.7148 | 0.040                    | ***** | 0.040                      | -0.4950 |
| 0.060                       | -0.7241 | 0.060                    | ***** | 0.060                      | -0.5572 |
| 0.080                       | -0.7226 | 0.080                    | ***** | 0.080                      | -0.5640 |
| 0.100                       | -0.7515 | 0.100                    | ***** | 0.100                      | -0.5683 |
| 0.125                       | -0.6505 | 0.125                    | ***** | 0.125                      | -0.5636 |
| 0.150                       | -0.7421 | 0.150                    | ***** | 0.150                      | -0.5817 |
| 0.175                       | -0.7051 | 0.175                    | ***** | 0.175                      | -0.5957 |
| 0.200                       | -0.7567 | 0.200                    | ***** | 0.200                      | -0.5881 |
| 0.250                       | -0.7403 | 0.250                    | ***** | 0.250                      | -0.6176 |
| 0.300                       | -0.7185 | 0.300                    | ***** | 0.300                      | -0.6037 |
| 0.350                       | -0.6572 | 0.350                    | ***** | 0.350                      | -0.5939 |
| 0.400                       | -0.5934 | 0.400                    | ***** | 0.400                      | -0.5694 |
| 0.450                       | -0.5256 | 0.450                    | ***** | 0.450                      | -0.5386 |
| 0.500                       | -0.5095 | 0.500                    | ***** | 0.500                      | -0.4929 |
| 0.550                       | -0.4382 | 0.550                    | ***** | 0.550                      | -0.4755 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.4855 | 0.005 | ***** | 0.005 | 0.4139 |
| 0.010 | 0.2544 | 0.010 | ***** | 0.010 | 0.0739 |

Fight 29 Test point 12

Sweep, deg = 30.1 Mach = 0.71 hp, ft = 20000. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 340.0 Rnpu = 3013000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.7749  | 0.000                    | ***** | 0.000                      | 0.8183  |
| 0.005                       | -0.0374 | 0.005                    | ***** | 0.005                      | 0.2782  |
| 0.010                       | -0.2709 | 0.010                    | ***** | 0.010                      | 0.0102  |
| 0.020                       | -0.4749 | 0.020                    | ***** | 0.020                      | -0.2897 |
| 0.040                       | -0.5935 | 0.040                    | ***** | 0.040                      | -0.4111 |
| 0.060                       | -0.5963 | 0.060                    | ***** | 0.060                      | -0.4687 |
| 0.080                       | -0.6152 | 0.080                    | ***** | 0.080                      | -0.4823 |
| 0.100                       | -0.6335 | 0.100                    | ***** | 0.100                      | -0.4889 |
| 0.125                       | -0.5613 | 0.125                    | ***** | 0.125                      | -0.4886 |
| 0.150                       | -0.6325 | 0.150                    | ***** | 0.150                      | -0.5019 |
| 0.175                       | -0.6105 | 0.175                    | ***** | 0.175                      | -0.5230 |
| 0.200                       | -0.6509 | 0.200                    | ***** | 0.200                      | -0.5165 |
| 0.250                       | -0.6424 | 0.250                    | ***** | 0.250                      | -0.5409 |
| 0.300                       | -0.6267 | 0.300                    | ***** | 0.300                      | -0.5288 |
| 0.350                       | -0.5776 | 0.350                    | ***** | 0.350                      | -0.5284 |
| 0.400                       | -0.5277 | 0.400                    | ***** | 0.400                      | -0.5066 |
| 0.450                       | -0.4716 | 0.450                    | ***** | 0.450                      | -0.4799 |
| 0.500                       | -0.4591 | 0.500                    | ***** | 0.500                      | -0.4449 |
| 0.550                       | -0.4032 | 0.550                    | ***** | 0.550                      | -0.4412 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.3887 | 0.005 | ***** | 0.005 | 0.3318 |
| 0.010 | 0.1705 | 0.010 | ***** | 0.010 | 0.0192 |

Fight 29 Test point 13

Sweep, deg = 30.2 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 331.5 R<sub>pu</sub> = 2969000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.7816  | 0.000                    | ***** | 0.000                      | 0.8194  |
| 0.005                       | 0.0798  | 0.005                    | ***** | 0.005                      | 0.3702  |
| 0.010                       | -0.1533 | 0.010                    | ***** | 0.010                      | 0.1162  |
| 0.020                       | -0.3571 | 0.020                    | ***** | 0.020                      | -0.1773 |
| 0.040                       | -0.4788 | 0.040                    | ***** | 0.040                      | -0.3225 |
| 0.060                       | -0.5085 | 0.060                    | ***** | 0.060                      | -0.3860 |
| 0.080                       | -0.5341 | 0.080                    | ***** | 0.080                      | -0.4019 |
| 0.100                       | -0.5495 | 0.100                    | ***** | 0.100                      | -0.4067 |
| 0.125                       | -0.5046 | 0.125                    | ***** | 0.125                      | -0.4158 |
| 0.150                       | -0.5661 | 0.150                    | ***** | 0.150                      | -0.4339 |
| 0.175                       | -0.5535 | 0.175                    | ***** | 0.175                      | -0.4584 |
| 0.200                       | -0.5938 | 0.200                    | ***** | 0.200                      | -0.4568 |
| 0.250                       | -0.5896 | 0.250                    | ***** | 0.250                      | -0.4887 |
| 0.300                       | -0.5759 | 0.300                    | ***** | 0.300                      | -0.4860 |
| 0.350                       | -0.5395 | 0.350                    | ***** | 0.350                      | -0.4881 |
| 0.400                       | -0.4973 | 0.400                    | ***** | 0.400                      | -0.4757 |
| 0.450                       | -0.4475 | 0.450                    | ***** | 0.450                      | -0.4549 |
| 0.500                       | -0.4371 | 0.500                    | ***** | 0.500                      | -0.4248 |
| 0.550                       | -0.3873 | 0.550                    | ***** | 0.550                      | -0.4256 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |         |
|-------|--------|-------|-------|-------|---------|
| 0.005 | 0.2931 | 0.005 | ***** | 0.005 | 0.2179  |
| 0.010 | 0.0659 | 0.010 | ***** | 0.010 | -0.1198 |

Fight 29 Test point 14

Sweep, deg = 30.2 Mach = 0.71 hp, ft = 20100. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 343.4 Rnpu = 3030000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.7452  | 0.000                    | ***** | 0.000                      | 0.7898  |
| 0.005                       | -0.2083 | 0.005                    | ***** | 0.005                      | 0.1251  |
| 0.010                       | -0.4490 | 0.010                    | ***** | 0.010                      | -0.1706 |
| 0.020                       | -0.6493 | 0.020                    | ***** | 0.020                      | -0.4887 |
| 0.040                       | -0.7392 | 0.040                    | ***** | 0.040                      | -0.5823 |
| 0.060                       | -0.7147 | 0.060                    | ***** | 0.060                      | -0.6171 |
| 0.080                       | -0.7205 | 0.080                    | ***** | 0.080                      | -0.6104 |
| 0.100                       | -0.7568 | 0.100                    | ***** | 0.100                      | -0.6023 |
| 0.125                       | -0.6422 | 0.125                    | ***** | 0.125                      | -0.5839 |
| 0.150                       | -0.7179 | 0.150                    | ***** | 0.150                      | -0.5854 |
| 0.175                       | -0.6786 | 0.175                    | ***** | 0.175                      | -0.6014 |
| 0.200                       | -0.7193 | 0.200                    | ***** | 0.200                      | -0.5875 |
| 0.250                       | -0.7048 | 0.250                    | ***** | 0.250                      | -0.6017 |
| 0.300                       | -0.6786 | 0.300                    | ***** | 0.300                      | -0.5830 |
| 0.350                       | -0.6216 | 0.350                    | ***** | 0.350                      | -0.5734 |
| 0.400                       | -0.5621 | 0.400                    | ***** | 0.400                      | -0.5441 |
| 0.450                       | -0.4981 | 0.450                    | ***** | 0.450                      | -0.5086 |
| 0.500                       | -0.4818 | 0.500                    | ***** | 0.500                      | -0.4628 |
| 0.550                       | -0.4171 | 0.550                    | ***** | 0.550                      | -0.4494 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.4891 | 0.005 | ***** | 0.005 | 0.4546 |
| 0.010 | 0.2892 | 0.010 | ***** | 0.010 | 0.1732 |

Fight 29 Test point 15

Sweep, deg = 20.1 Mach = 0.80 hp, ft = 20100. Angle of attack, deg = -0.2  
 /angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 435.1 Rnpu = 3449000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9696  | 0.000                    | ***** | 0.000                      | 0.9890  |
| 0.005                       | 0.4429  | 0.005                    | ***** | 0.005                      | 0.6864  |
| 0.010                       | 0.1886  | 0.010                    | ***** | 0.010                      | 0.4434  |
| 0.020                       | -0.0668 | 0.020                    | ***** | 0.020                      | 0.1082  |
| 0.040                       | -0.2901 | 0.040                    | ***** | 0.040                      | -0.1041 |
| 0.060                       | -0.3734 | 0.060                    | ***** | 0.060                      | -0.2304 |
| 0.080                       | -0.4182 | 0.080                    | ***** | 0.080                      | -0.2861 |
| 0.100                       | -0.4744 | 0.100                    | ***** | 0.100                      | -0.3271 |
| 0.125                       | -0.4947 | 0.125                    | ***** | 0.125                      | -0.3678 |
| 0.150                       | -0.6029 | 0.150                    | ***** | 0.150                      | -0.4231 |
| 0.175                       | -0.5631 | 0.175                    | ***** | 0.175                      | -0.4754 |
| 0.200                       | -0.6893 | 0.200                    | ***** | 0.200                      | -0.4863 |
| 0.250                       | -0.7634 | 0.250                    | ***** | 0.250                      | -0.5765 |
| 0.300                       | -0.8361 | 0.300                    | ***** | 0.300                      | -0.6559 |
| 0.350                       | -0.8538 | 0.350                    | ***** | 0.350                      | -0.7247 |
| 0.400                       | -0.8705 | 0.400                    | ***** | 0.400                      | -0.7817 |
| 0.450                       | -0.8904 | 0.450                    | ***** | 0.450                      | -0.8422 |
| 0.500                       | -0.9589 | 0.500                    | ***** | 0.500                      | -0.8696 |
| 0.550                       | -0.4306 | 0.550                    | ***** | 0.550                      | -0.8785 |

\*\*\* - no data

Lower surface

|       |         |       |       |       |         |
|-------|---------|-------|-------|-------|---------|
| 0.005 | 0.2238  | 0.005 | ***** | 0.005 | 0.1443  |
| 0.010 | -0.0648 | 0.010 | ***** | 0.010 | -0.2954 |

Fight 29 Test point 16

Sweep, deg = 20.1 Mach = 0.81 hp, ft = 20000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 443.0 Rnpu = 3488000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 1.0320  | 0.000                    | ***** | 0.000                      | 1.0537  |
| 0.005                       | 0.4873  | 0.005                    | ***** | 0.005                      | 0.7545  |
| 0.010                       | 0.2234  | 0.010                    | ***** | 0.010                      | 0.5051  |
| 0.020                       | -0.0389 | 0.020                    | ***** | 0.020                      | 0.1643  |
| 0.040                       | -0.2749 | 0.040                    | ***** | 0.040                      | -0.0557 |
| 0.060                       | -0.3632 | 0.060                    | ***** | 0.060                      | -0.1871 |
| 0.080                       | -0.4094 | 0.080                    | ***** | 0.080                      | -0.2465 |
| 0.100                       | -0.4567 | 0.100                    | ***** | 0.100                      | -0.2894 |
| 0.125                       | -0.5222 | 0.125                    | ***** | 0.125                      | -0.3269 |
| 0.150                       | -0.6346 | 0.150                    | ***** | 0.150                      | -0.3842 |
| 0.175                       | -0.5740 | 0.175                    | ***** | 0.175                      | -0.4371 |
| 0.200                       | -0.6704 | 0.200                    | ***** | 0.200                      | -0.4678 |
| 0.250                       | -0.7763 | 0.250                    | ***** | 0.250                      | -0.5703 |
| 0.300                       | -0.8527 | 0.300                    | ***** | 0.300                      | -0.6476 |
| 0.350                       | -0.8700 | 0.350                    | ***** | 0.350                      | -0.7107 |
| 0.400                       | -0.8893 | 0.400                    | ***** | 0.400                      | -0.7716 |
| 0.450                       | -0.9103 | 0.450                    | ***** | 0.450                      | -0.8199 |
| 0.500                       | -1.0045 | 0.500                    | ***** | 0.500                      | -0.8639 |
| 0.550                       | -0.8660 | 0.550                    | ***** | 0.550                      | -0.8422 |

\*\*\* - no data

Lower surface

|       |         |       |       |       |         |
|-------|---------|-------|-------|-------|---------|
| 0.005 | 0.2760  | 0.005 | ***** | 0.005 | 0.1861  |
| 0.010 | -0.0180 | 0.010 | ***** | 0.010 | -0.2623 |

Flight 29 Test point 17

Sweep, deg = 20.1 Mach = 0.81 hp, ft = 19900. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -5.2 QBAR, lb/ft<sup>2</sup> = 444.5 Rnpu = 3497000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 1.0359  | 0.000                    | ***** | 0.000                      | 1.0591  |
| 0.005                       | 0.4768  | 0.005                    | ***** | 0.005                      | 0.7508  |
| 0.010                       | 0.2125  | 0.010                    | ***** | 0.010                      | 0.4988  |
| 0.020                       | -0.0513 | 0.020                    | ***** | 0.020                      | 0.1592  |
| 0.040                       | -0.2845 | 0.040                    | ***** | 0.040                      | -0.0585 |
| 0.060                       | -0.3706 | 0.060                    | ***** | 0.060                      | -0.1933 |
| 0.080                       | -0.4189 | 0.080                    | ***** | 0.080                      | -0.2508 |
| 0.100                       | -0.4638 | 0.100                    | ***** | 0.100                      | -0.2967 |
| 0.125                       | -0.5278 | 0.125                    | ***** | 0.125                      | -0.3342 |
| 0.150                       | -0.6409 | 0.150                    | ***** | 0.150                      | -0.3900 |
| 0.175                       | -0.5969 | 0.175                    | ***** | 0.175                      | -0.4399 |
| 0.200                       | -0.6708 | 0.200                    | ***** | 0.200                      | -0.4690 |
| 0.250                       | -0.7788 | 0.250                    | ***** | 0.250                      | -0.5750 |
| 0.300                       | -0.8615 | 0.300                    | ***** | 0.300                      | -0.6527 |
| 0.350                       | -0.8792 | 0.350                    | ***** | 0.350                      | -0.7205 |
| 0.400                       | -0.8971 | 0.400                    | ***** | 0.400                      | -0.7733 |
| 0.450                       | -0.9183 | 0.450                    | ***** | 0.450                      | -0.8212 |
| 0.500                       | -0.9990 | 0.500                    | ***** | 0.500                      | -0.8626 |
| 0.550                       | -0.7316 | 0.550                    | ***** | 0.550                      | -0.8462 |

\*\*\* - no data

Lower surface

|       |         |       |       |       |         |
|-------|---------|-------|-------|-------|---------|
| 0.005 | 0.2929  | 0.005 | ***** | 0.005 | 0.1982  |
| 0.010 | -0.0018 | 0.010 | ***** | 0.010 | -0.2469 |



Flight 29 Test point 18

Sweep, deg = 20.1 Mach = 0.80 hp, ft = 20600. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 427.6 Rnpu = 3394000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9825  | 0.000                    | ***** | 0.000                      | 1.0053  |
| 0.005                       | 0.3381  | 0.005                    | ***** | 0.005                      | 0.6161  |
| 0.010                       | 0.0721  | 0.010                    | ***** | 0.010                      | 0.3527  |
| 0.020                       | -0.1826 | 0.020                    | ***** | 0.020                      | 0.0064  |
| 0.040                       | -0.4086 | 0.040                    | ***** | 0.040                      | -0.1984 |
| 0.060                       | -0.4809 | 0.060                    | ***** | 0.060                      | -0.3219 |
| 0.080                       | -0.5095 | 0.080                    | ***** | 0.080                      | -0.3746 |
| 0.100                       | -0.5302 | 0.100                    | ***** | 0.100                      | -0.4123 |
| 0.125                       | -0.5908 | 0.125                    | ***** | 0.125                      | -0.4429 |
| 0.150                       | -0.7330 | 0.150                    | ***** | 0.150                      | -0.4826 |
| 0.175                       | -0.6775 | 0.175                    | ***** | 0.175                      | -0.5361 |
| 0.200                       | -0.7477 | 0.200                    | ***** | 0.200                      | -0.5621 |
| 0.250                       | -0.8293 | 0.250                    | ***** | 0.250                      | -0.6482 |
| 0.300                       | -0.9068 | 0.300                    | ***** | 0.300                      | -0.7222 |
| 0.350                       | -0.9203 | 0.350                    | ***** | 0.350                      | -0.7897 |
| 0.400                       | -0.9147 | 0.400                    | ***** | 0.400                      | -0.8474 |
| 0.450                       | -0.9467 | 0.450                    | ***** | 0.450                      | -0.8947 |
| 0.500                       | -1.0486 | 0.500                    | ***** | 0.500                      | -0.9317 |
| 0.550                       | -0.5432 | 0.550                    | ***** | 0.550                      | -0.9270 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |         |
|-------|--------|-------|-------|-------|---------|
| 0.005 | 0.3447 | 0.005 | ***** | 0.005 | 0.2537  |
| 0.010 | 0.0668 | 0.010 | ***** | 0.010 | -0.1621 |

Flight 29 Test point 19

Sweep, deg = 20.1 Mach = 0.81 hp, ft = 19700. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -5.3 QBAR, lb/ft<sup>2</sup> = 447.7 Rnpu = 3520000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 1.0411  | 0.000                    | ***** | 0.000                      | 1.0629  |
| 0.005                       | 0.4106  | 0.005                    | ***** | 0.005                      | 0.7046  |
| 0.010                       | 0.1417  | 0.010                    | ***** | 0.010                      | 0.4449  |
| 0.020                       | -0.1248 | 0.020                    | ***** | 0.020                      | 0.0928  |
| 0.040                       | -0.3565 | 0.040                    | ***** | 0.040                      | -0.1197 |
| 0.060                       | -0.4395 | 0.060                    | ***** | 0.060                      | -0.2529 |
| 0.080                       | -0.4816 | 0.080                    | ***** | 0.080                      | -0.3051 |
| 0.100                       | -0.5014 | 0.100                    | ***** | 0.100                      | -0.3472 |
| 0.125                       | -0.5536 | 0.125                    | ***** | 0.125                      | -0.3810 |
| 0.150                       | -0.6826 | 0.150                    | ***** | 0.150                      | -0.4326 |
| 0.175                       | -0.6578 | 0.175                    | ***** | 0.175                      | -0.4822 |
| 0.200                       | -0.7141 | 0.200                    | ***** | 0.200                      | -0.5154 |
| 0.250                       | -0.8188 | 0.250                    | ***** | 0.250                      | -0.6020 |
| 0.300                       | -0.9014 | 0.300                    | ***** | 0.300                      | -0.6757 |
| 0.350                       | -0.9159 | 0.350                    | ***** | 0.350                      | -0.7619 |
| 0.400                       | -0.9359 | 0.400                    | ***** | 0.400                      | -0.8056 |
| 0.450                       | -0.9543 | 0.450                    | ***** | 0.450                      | -0.8602 |
| 0.500                       | -1.0570 | 0.500                    | ***** | 0.500                      | -0.8981 |
| 0.550                       | -0.5654 | 0.550                    | ***** | 0.550                      | -0.8748 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |         |
|-------|--------|-------|-------|-------|---------|
| 0.005 | 0.3593 | 0.005 | ***** | 0.005 | 0.2523  |
| 0.010 | 0.0726 | 0.010 | ***** | 0.010 | -0.1854 |

Fight 29 Test point 20

Sweep, deg = 20.1 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 434.8 Rnpu = 3456000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9795  | 0.000                    | ***** | 0.000                      | 1.0009  |
| 0.005                       | 0.3607  | 0.005                    | ***** | 0.005                      | 0.6301  |
| 0.010                       | 0.0972  | 0.010                    | ***** | 0.010                      | 0.3694  |
| 0.020                       | -0.1618 | 0.020                    | ***** | 0.020                      | 0.0259  |
| 0.040                       | -0.3846 | 0.040                    | ***** | 0.040                      | -0.1801 |
| 0.060                       | -0.4605 | 0.060                    | ***** | 0.060                      | -0.3074 |
| 0.080                       | -0.4906 | 0.080                    | ***** | 0.080                      | -0.3570 |
| 0.100                       | -0.5285 | 0.100                    | ***** | 0.100                      | -0.3945 |
| 0.125                       | -0.5883 | 0.125                    | ***** | 0.125                      | -0.4279 |
| 0.150                       | -0.7155 | 0.150                    | ***** | 0.150                      | -0.4766 |
| 0.175                       | -0.6542 | 0.175                    | ***** | 0.175                      | -0.5235 |
| 0.200                       | -0.7332 | 0.200                    | ***** | 0.200                      | -0.5622 |
| 0.250                       | -0.8224 | 0.250                    | ***** | 0.250                      | -0.6408 |
| 0.300                       | -0.8858 | 0.300                    | ***** | 0.300                      | -0.7000 |
| 0.350                       | -0.8834 | 0.350                    | ***** | 0.350                      | -0.7780 |
| 0.400                       | -0.9134 | 0.400                    | ***** | 0.400                      | -0.8338 |
| 0.450                       | -0.9450 | 0.450                    | ***** | 0.450                      | -0.8853 |
| 0.500                       | -1.0367 | 0.500                    | ***** | 0.500                      | -0.9177 |
| 0.550                       | -0.4825 | 0.550                    | ***** | 0.550                      | -0.9188 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |         |
|-------|--------|-------|-------|-------|---------|
| 0.005 | 0.3136 | 0.005 | ***** | 0.005 | 0.2245  |
| 0.010 | 0.0360 | 0.010 | ***** | 0.010 | -0.1988 |

Fight 29 Test point 21

Sweep, deg = 30.1 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 353.9 Rnpu = 2898000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8004  | 0.000                    | ***** | 0.000                      | 0.8325  |
| 0.005                       | 0.1040  | 0.005                    | ***** | 0.005                      | 0.3497  |
| 0.010                       | -0.1300 | 0.010                    | ***** | 0.010                      | 0.0896  |
| 0.020                       | -0.3524 | 0.020                    | ***** | 0.020                      | -0.2296 |
| 0.040                       | -0.5086 | 0.040                    | ***** | 0.040                      | -0.3915 |
| 0.060                       | -0.5647 | 0.060                    | ***** | 0.060                      | -0.4811 |
| 0.080                       | -0.5630 | 0.080                    | ***** | 0.080                      | -0.5111 |
| 0.100                       | -0.5940 | 0.100                    | ***** | 0.100                      | -0.5490 |
| 0.125                       | -0.6232 | 0.125                    | ***** | 0.125                      | -0.5270 |
| 0.150                       | -0.7227 | 0.150                    | ***** | 0.150                      | -0.5921 |
| 0.175                       | -0.6826 | 0.175                    | ***** | 0.175                      | -0.6237 |
| 0.200                       | -0.7831 | 0.200                    | ***** | 0.200                      | -0.6369 |
| 0.250                       | -0.8052 | 0.250                    | ***** | 0.250                      | -0.6978 |
| 0.300                       | -0.7293 | 0.300                    | ***** | 0.300                      | -0.7386 |
| 0.350                       | -0.7433 | 0.350                    | ***** | 0.350                      | -0.8048 |
| 0.400                       | -0.7583 | 0.400                    | ***** | 0.400                      | -0.8382 |
| 0.450                       | -0.7489 | 0.450                    | ***** | 0.450                      | -0.8822 |
| 0.500                       | -0.5169 | 0.500                    | ***** | 0.500                      | -0.3856 |
| 0.550                       | -0.4181 | 0.550                    | ***** | 0.550                      | -0.3796 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |         |
|-------|--------|-------|-------|-------|---------|
| 0.005 | 0.3498 | 0.005 | ***** | 0.005 | 0.3178  |
| 0.010 | 0.1233 | 0.010 | ***** | 0.010 | -0.0093 |

Fight 29 Test point 22

Sweep, deg = 30.1 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 352.3 Rnpu = 2889000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.7919  | 0.000                    | ***** | 0.000                      | 0.8201  |
| 0.005                       | -0.0198 | 0.005                    | ***** | 0.005                      | 0.2473  |
| 0.010                       | -0.2594 | 0.010                    | ***** | 0.010                      | -0.0345 |
| 0.020                       | -0.4824 | 0.020                    | ***** | 0.020                      | -0.3585 |
| 0.040                       | -0.6933 | 0.040                    | ***** | 0.040                      | -0.5068 |
| 0.060                       | -0.6924 | 0.060                    | ***** | 0.060                      | -0.6517 |
| 0.080                       | -0.7066 | 0.080                    | ***** | 0.080                      | -0.6200 |
| 0.100                       | -0.6692 | 0.100                    | ***** | 0.100                      | -0.6257 |
| 0.125                       | -0.6634 | 0.125                    | ***** | 0.125                      | -0.6990 |
| 0.150                       | -0.8062 | 0.150                    | ***** | 0.150                      | -0.6353 |
| 0.175                       | -0.7577 | 0.175                    | ***** | 0.175                      | -0.6703 |
| 0.200                       | -0.8451 | 0.200                    | ***** | 0.200                      | -0.7019 |
| 0.250                       | -0.9033 | 0.250                    | ***** | 0.250                      | -0.7646 |
| 0.300                       | -0.9432 | 0.300                    | ***** | 0.300                      | -0.8162 |
| 0.350                       | -0.9086 | 0.350                    | ***** | 0.350                      | -0.8763 |
| 0.400                       | -0.7600 | 0.400                    | ***** | 0.400                      | -0.9137 |
| 0.450                       | -0.7643 | 0.450                    | ***** | 0.450                      | -0.9629 |
| 0.500                       | -0.6385 | 0.500                    | ***** | 0.500                      | -0.6271 |
| 0.550                       | -0.4070 | 0.550                    | ***** | 0.550                      | -0.3632 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.4481 | 0.005 | ***** | 0.005 | 0.4336 |
| 0.010 | 0.2370 | 0.010 | ***** | 0.010 | 0.1418 |

Flight 29 Test point 23

Sweep, deg = 34.9 Mach = 0.79 hp, ft = 23900. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 356.1 Rnpu = 2946000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.7129  | 0.000                    | ***** | 0.000                      | 0.7455  |
| 0.005                       | 0.0316  | 0.005                    | ***** | 0.005                      | 0.2729  |
| 0.010                       | -0.1837 | 0.010                    | ***** | 0.010                      | 0.0255  |
| 0.020                       | -0.3773 | 0.020                    | ***** | 0.020                      | -0.2604 |
| 0.040                       | -0.5128 | 0.040                    | ***** | 0.040                      | -0.3944 |
| 0.060                       | -0.5264 | 0.060                    | ***** | 0.060                      | -0.4658 |
| 0.080                       | -0.5462 | 0.080                    | ***** | 0.080                      | -0.4865 |
| 0.100                       | -0.6264 | 0.100                    | ***** | 0.100                      | -0.4979 |
| 0.125                       | -0.6211 | 0.125                    | ***** | 0.125                      | -0.5020 |
| 0.150                       | -0.5786 | 0.150                    | ***** | 0.150                      | -0.5231 |
| 0.175                       | -0.6371 | 0.175                    | ***** | 0.175                      | -0.5523 |
| 0.200                       | -0.6505 | 0.200                    | ***** | 0.200                      | -0.5480 |
| 0.250                       | -0.6698 | 0.250                    | ***** | 0.250                      | -0.5844 |
| 0.300                       | -0.6469 | 0.300                    | ***** | 0.300                      | -0.5693 |
| 0.350                       | -0.6569 | 0.350                    | ***** | 0.350                      | -0.5610 |
| 0.400                       | -0.5650 | 0.400                    | ***** | 0.400                      | -0.5197 |
| 0.450                       | -0.4787 | 0.450                    | ***** | 0.450                      | -0.4826 |
| 0.500                       | -0.4648 | 0.500                    | ***** | 0.500                      | -0.4324 |
| 0.550                       | -0.4053 | 0.550                    | ***** | 0.550                      | -0.4178 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.3189 | 0.005 | ***** | 0.005 | 0.2908 |
| 0.010 | 0.1169 | 0.010 | ***** | 0.010 | 0.0045 |

Fight 30 Test point 1

Sweep, deg = 20.0 Mach = 0.71 hp, ft = 10000. Angle of attack, deg = -0.2  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 511.4 Rnpu = 4243000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9509  | 0.000                    | ***** | 0.000                      | 0.9666  |
| 0.005                       | 0.3170  | 0.005                    | ***** | 0.005                      | 0.6242  |
| 0.010                       | 0.0477  | 0.010                    | ***** | 0.010                      | 0.3626  |
| 0.020                       | -0.2122 | 0.020                    | ***** | 0.020                      | 0.0159  |
| 0.040                       | -0.4121 | 0.040                    | ***** | 0.040                      | -0.1809 |
| 0.060                       | -0.4691 | 0.060                    | ***** | 0.060                      | -0.2901 |
| 0.080                       | -0.5089 | 0.080                    | ***** | 0.080                      | -0.3333 |
| 0.100                       | -0.5394 | 0.100                    | ***** | 0.100                      | -0.3649 |
| 0.125                       | -0.5094 | 0.125                    | ***** | 0.125                      | -0.3903 |
| 0.150                       | -0.5949 | 0.150                    | ***** | 0.150                      | -0.4274 |
| 0.175                       | -0.5967 | 0.175                    | ***** | 0.175                      | -0.4429 |
| 0.200                       | -0.6541 | 0.200                    | ***** | 0.200                      | -0.4594 |
| 0.250                       | -0.6679 | 0.250                    | ***** | 0.250                      | -0.5190 |
| 0.300                       | -0.6679 | 0.300                    | ***** | 0.300                      | -0.5325 |
| 0.350                       | -0.6225 | 0.350                    | ***** | 0.350                      | -0.5486 |
| 0.400                       | -0.5691 | 0.400                    | ***** | 0.400                      | -0.5415 |
| 0.450                       | -0.5089 | 0.450                    | ***** | 0.450                      | -0.5207 |
| 0.500                       | -0.4945 | 0.500                    | ***** | 0.500                      | -0.4839 |
| 0.550                       | -0.4392 | 0.550                    | ***** | 0.550                      | -0.4712 |

\*\*\* - no data

Lower surface

|       |         |       |       |       |         |
|-------|---------|-------|-------|-------|---------|
| 0.005 | 0.2306  | 0.005 | ***** | 0.005 | 0.0885  |
| 0.010 | -0.0553 | 0.010 | ***** | 0.010 | -0.3566 |

Flight 30 Test point 2

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = -0.1  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 499.5 Rnpu = 4184000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9522  | 0.000                    | ***** | 0.000                      | 0.9668  |
| 0.005                       | 0.3108  | 0.005                    | ***** | 0.005                      | 0.6239  |
| 0.010                       | 0.0411  | 0.010                    | ***** | 0.010                      | 0.3620  |
| 0.020                       | -0.2174 | 0.020                    | ***** | 0.020                      | 0.0143  |
| 0.040                       | -0.4165 | 0.040                    | ***** | 0.040                      | -0.1837 |
| 0.060                       | -0.4833 | 0.060                    | ***** | 0.060                      | -0.2900 |
| 0.080                       | -0.5202 | 0.080                    | ***** | 0.080                      | -0.3305 |
| 0.100                       | -0.5456 | 0.100                    | ***** | 0.100                      | -0.3594 |
| 0.125                       | -0.5046 | 0.125                    | ***** | 0.125                      | -0.3851 |
| 0.150                       | -0.5913 | 0.150                    | ***** | 0.150                      | -0.4240 |
| 0.175                       | -0.5928 | 0.175                    | ***** | 0.175                      | -0.4468 |
| 0.200                       | -0.6501 | 0.200                    | ***** | 0.200                      | -0.4551 |
| 0.250                       | -0.6619 | 0.250                    | ***** | 0.250                      | -0.5134 |
| 0.300                       | -0.6568 | 0.300                    | ***** | 0.300                      | -0.5237 |
| 0.350                       | -0.6108 | 0.350                    | ***** | 0.350                      | -0.5379 |
| 0.400                       | -0.5619 | 0.400                    | ***** | 0.400                      | -0.5317 |
| 0.450                       | -0.5052 | 0.450                    | ***** | 0.450                      | -0.5157 |
| 0.500                       | -0.4908 | 0.500                    | ***** | 0.500                      | -0.4796 |
| 0.550                       | -0.4363 | 0.550                    | ***** | 0.550                      | -0.4704 |

\*\*\* - no data

Lower surface

|       |         |       |       |       |         |
|-------|---------|-------|-------|-------|---------|
| 0.005 | 0.2290  | 0.005 | ***** | 0.005 | 0.0821  |
| 0.010 | -0.0585 | 0.010 | ***** | 0.010 | -0.3661 |



Fight 30 Test point 3

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 333.8 Rnpu = 3002000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8616  | 0.000                    | ***** | 0.000                      | 0.9823  |
| 0.005                       | 0.0125  | 0.005                    | ***** | 0.005                      | 0.3603  |
| 0.010                       | -0.2450 | 0.010                    | ***** | 0.010                      | 0.0726  |
| 0.020                       | -0.4723 | 0.020                    | ***** | 0.020                      | -0.2635 |
| 0.040                       | -0.6253 | 0.040                    | ***** | 0.040                      | -0.4140 |
| 0.060                       | -0.6504 | 0.060                    | ***** | 0.060                      | -0.4807 |
| 0.080                       | -0.6616 | 0.080                    | ***** | 0.080                      | -0.4968 |
| 0.100                       | -0.6657 | 0.100                    | ***** | 0.100                      | -0.5067 |
| 0.125                       | -0.5911 | 0.125                    | ***** | 0.125                      | -0.5108 |
| 0.150                       | -0.6762 | 0.150                    | ***** | 0.150                      | -0.5293 |
| 0.175                       | -0.6553 | 0.175                    | ***** | 0.175                      | -0.5501 |
| 0.200                       | -0.7066 | 0.200                    | ***** | 0.200                      | -0.5448 |
| 0.250                       | -0.6995 | 0.250                    | ***** | 0.250                      | -0.5780 |
| 0.300                       | -0.6831 | 0.300                    | ***** | 0.300                      | -0.5739 |
| 0.350                       | -0.6281 | 0.350                    | ***** | 0.350                      | -0.5657 |
| 0.400                       | -0.5714 | 0.400                    | ***** | 0.400                      | -0.5496 |
| 0.450                       | -0.5112 | 0.450                    | ***** | 0.450                      | -0.5230 |
| 0.500                       | -0.4963 | 0.500                    | ***** | 0.500                      | -0.4816 |
| 0.550                       | -0.4294 | 0.550                    | ***** | 0.550                      | -0.4687 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |         |
|-------|--------|-------|-------|-------|---------|
| 0.005 | 0.4120 | 0.005 | ***** | 0.005 | 0.3302  |
| 0.010 | 0.1731 | 0.010 | ***** | 0.010 | -0.0264 |

Flight 30 Test point 4

Sweep, deg = 25.4 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 333.8 Rnpu = 3002000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8598  | 0.000                    | ***** | 0.000                      | 0.8978  |
| 0.005                       | 0.0126  | 0.005                    | ***** | 0.005                      | 0.3554  |
| 0.010                       | -0.2437 | 0.010                    | ***** | 0.010                      | 0.0659  |
| 0.020                       | -0.4751 | 0.020                    | ***** | 0.020                      | -0.2714 |
| 0.040                       | -0.6241 | 0.040                    | ***** | 0.040                      | -0.4193 |
| 0.060                       | -0.6527 | 0.060                    | ***** | 0.060                      | -0.4857 |
| 0.080                       | -0.6639 | 0.080                    | ***** | 0.080                      | -0.4961 |
| 0.100                       | -0.6638 | 0.100                    | ***** | 0.100                      | -0.5093 |
| 0.125                       | -0.5926 | 0.125                    | ***** | 0.125                      | -0.5134 |
| 0.150                       | -0.6765 | 0.150                    | ***** | 0.150                      | -0.5342 |
| 0.175                       | -0.6578 | 0.175                    | ***** | 0.175                      | -0.5548 |
| 0.200                       | -0.7071 | 0.200                    | ***** | 0.200                      | -0.5473 |
| 0.250                       | -0.7028 | 0.250                    | ***** | 0.250                      | -0.5757 |
| 0.300                       | -0.6855 | 0.300                    | ***** | 0.300                      | -0.5725 |
| 0.350                       | -0.6301 | 0.350                    | ***** | 0.350                      | -0.5664 |
| 0.400                       | -0.5728 | 0.400                    | ***** | 0.400                      | -0.5479 |
| 0.450                       | -0.5103 | 0.450                    | ***** | 0.450                      | -0.5242 |
| 0.500                       | -0.4947 | 0.500                    | ***** | 0.500                      | -0.4832 |
| 0.550                       | -0.4300 | 0.550                    | ***** | 0.550                      | -0.4690 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |         |
|-------|--------|-------|-------|-------|---------|
| 0.005 | 0.4090 | 0.005 | ***** | 0.005 | 0.3321  |
| 0.010 | 0.1688 | 0.010 | ***** | 0.010 | -0.0225 |

Flight 30 Test point 5

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 19900. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 334.1 Rnpu = 3004000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8496  | 0.000                    | ***** | 0.000                      | 0.8936  |
| 0.005                       | -0.0848 | 0.005                    | ***** | 0.005                      | 0.2834  |
| 0.010                       | -0.3440 | 0.010                    | ***** | 0.010                      | -0.0200 |
| 0.020                       | -0.5715 | 0.020                    | ***** | 0.020                      | -0.3586 |
| 0.040                       | -0.7113 | 0.040                    | ***** | 0.040                      | -0.4942 |
| 0.060                       | -0.7246 | 0.060                    | ***** | 0.060                      | -0.5522 |
| 0.080                       | -0.7282 | 0.080                    | ***** | 0.080                      | -0.5611 |
| 0.100                       | -0.7229 | 0.100                    | ***** | 0.100                      | -0.5655 |
| 0.125                       | -0.6365 | 0.125                    | ***** | 0.125                      | -0.5624 |
| 0.150                       | -0.7240 | 0.150                    | ***** | 0.150                      | -0.5754 |
| 0.175                       | -0.6970 | 0.175                    | ***** | 0.175                      | -0.5919 |
| 0.200                       | -0.7461 | 0.200                    | ***** | 0.200                      | -0.5813 |
| 0.250                       | -0.7327 | 0.250                    | ***** | 0.250                      | -0.6098 |
| 0.300                       | -0.7099 | 0.300                    | ***** | 0.300                      | -0.5949 |
| 0.350                       | -0.6508 | 0.350                    | ***** | 0.350                      | -0.5908 |
| 0.400                       | -0.5875 | 0.400                    | ***** | 0.400                      | -0.5634 |
| 0.450                       | -0.5248 | 0.450                    | ***** | 0.450                      | -0.5350 |
| 0.500                       | -0.5033 | 0.500                    | ***** | 0.500                      | -0.4880 |
| 0.550                       | -0.4400 | 0.550                    | ***** | 0.550                      | -0.4726 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.4778 | 0.005 | ***** | 0.005 | 0.4058 |
| 0.010 | 0.2460 | 0.010 | ***** | 0.010 | 0.0691 |

Flight 30 Test point 6

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 19800. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 334.6 Rnpu = 3009000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8408  | 0.000                    | ***** | 0.000                      | 0.8855  |
| 0.005                       | -0.1033 | 0.005                    | ***** | 0.005                      | 0.2582  |
| 0.010                       | -0.3620 | 0.010                    | ***** | 0.010                      | -0.0440 |
| 0.020                       | -0.5904 | 0.020                    | ***** | 0.020                      | -0.3840 |
| 0.040                       | -0.7265 | 0.040                    | ***** | 0.040                      | -0.5121 |
| 0.060                       | -0.7353 | 0.060                    | ***** | 0.060                      | -0.5712 |
| 0.080                       | -0.7357 | 0.080                    | ***** | 0.080                      | -0.5724 |
| 0.100                       | -0.7224 | 0.100                    | ***** | 0.100                      | -0.5765 |
| 0.125                       | -0.6432 | 0.125                    | ***** | 0.125                      | -0.5740 |
| 0.150                       | -0.7317 | 0.150                    | ***** | 0.150                      | -0.5845 |
| 0.175                       | -0.7026 | 0.175                    | ***** | 0.175                      | -0.5997 |
| 0.200                       | -0.7516 | 0.200                    | ***** | 0.200                      | -0.5871 |
| 0.250                       | -0.7341 | 0.250                    | ***** | 0.250                      | -0.6161 |
| 0.300                       | -0.7143 | 0.300                    | ***** | 0.300                      | -0.5998 |
| 0.350                       | -0.6535 | 0.350                    | ***** | 0.350                      | -0.5893 |
| 0.400                       | -0.5907 | 0.400                    | ***** | 0.400                      | -0.5683 |
| 0.450                       | -0.5245 | 0.450                    | ***** | 0.450                      | -0.5347 |
| 0.500                       | -0.5050 | 0.500                    | ***** | 0.500                      | -0.4892 |
| 0.550                       | -0.4388 | 0.550                    | ***** | 0.550                      | -0.4749 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.4860 | 0.005 | ***** | 0.005 | 0.4184 |
| 0.010 | 0.2595 | 0.010 | ***** | 0.010 | 0.0905 |

Fight 30 Test point 7

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 386.9 Rnpu = 3257000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9612  | 0.000                    | ***** | 0.000                      | 0.9939  |
| 0.005                       | 0.2682  | 0.005                    | ***** | 0.005                      | 0.5716  |
| 0.010                       | -0.0020 | 0.010                    | ***** | 0.010                      | 0.2897  |
| 0.020                       | -0.2633 | 0.020                    | ***** | 0.020                      | -0.0613 |
| 0.040                       | -0.4776 | 0.040                    | ***** | 0.040                      | -0.2604 |
| 0.060                       | -0.5504 | 0.060                    | ***** | 0.060                      | -0.3750 |
| 0.080                       | -0.5945 | 0.080                    | ***** | 0.080                      | -0.4193 |
| 0.100                       | -0.6308 | 0.100                    | ***** | 0.100                      | -0.4524 |
| 0.125                       | -0.5890 | 0.125                    | ***** | 0.125                      | -0.4782 |
| 0.150                       | -0.7000 | 0.150                    | ***** | 0.150                      | -0.5203 |
| 0.175                       | -0.7149 | 0.175                    | ***** | 0.175                      | -0.5598 |
| 0.200                       | -0.7434 | 0.200                    | ***** | 0.200                      | -0.5829 |
| 0.250                       | -0.8401 | 0.250                    | ***** | 0.250                      | -0.6552 |
| 0.300                       | -0.8624 | 0.300                    | ***** | 0.300                      | -0.6756 |
| 0.350                       | -0.7720 | 0.350                    | ***** | 0.350                      | -0.7476 |
| 0.400                       | -0.7482 | 0.400                    | ***** | 0.400                      | -0.6099 |
| 0.450                       | -0.5517 | 0.450                    | ***** | 0.450                      | -0.5859 |
| 0.500                       | -0.5328 | 0.500                    | ***** | 0.500                      | -0.5267 |
| 0.550                       | -0.4590 | 0.550                    | ***** | 0.550                      | -0.4736 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |         |
|-------|--------|-------|-------|-------|---------|
| 0.005 | 0.3273 | 0.005 | ***** | 0.005 | 0.2355  |
| 0.010 | 0.0488 | 0.010 | ***** | 0.010 | -0.1833 |

Fight 30 Test point 8

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 20000. Ang/2 of attack, deg = 0.3  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft2 = 384.1 Rnpu = 3242000.

| Upper surface               |         |                          |       |                            |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9660  | 0.000                    | ***** | 0.000                      | 0.9904  |
| 0.005                       | 0.2582  | 0.005                    | ***** | 0.005                      | 0.5567  |
| 0.010                       | -0.0126 | 0.010                    | ***** | 0.010                      | 0.2751  |
| 0.020                       | -0.2765 | 0.020                    | ***** | 0.020                      | -0.0783 |
| 0.040                       | -0.4920 | 0.040                    | ***** | 0.040                      | -0.2713 |
| 0.060                       | -0.5625 | 0.060                    | ***** | 0.060                      | -0.3860 |
| 0.080                       | -0.6063 | 0.080                    | ***** | 0.080                      | -0.4280 |
| 0.100                       | -0.6421 | 0.100                    | ***** | 0.100                      | -0.4591 |
| 0.125                       | -0.5944 | 0.125                    | ***** | 0.125                      | -0.4819 |
| 0.150                       | -0.7073 | 0.150                    | ***** | 0.150                      | -0.5283 |
| 0.175                       | -0.7205 | 0.175                    | ***** | 0.175                      | -0.5681 |
| 0.200                       | -0.7519 | 0.200                    | ***** | 0.200                      | -0.5845 |
| 0.250                       | -0.8455 | 0.250                    | ***** | 0.250                      | -0.6554 |
| 0.300                       | -0.8409 | 0.300                    | ***** | 0.300                      | -0.6816 |
| 0.350                       | -0.7785 | 0.350                    | ***** | 0.350                      | -0.7199 |
| 0.400                       | -0.7414 | 0.400                    | ***** | 0.400                      | -0.6221 |
| 0.450                       | -0.5563 | 0.450                    | ***** | 0.450                      | -0.5861 |
| 0.500                       | -0.5336 | 0.500                    | ***** | 0.500                      | -0.5267 |
| 0.550                       | -0.4620 | 0.550                    | ***** | 0.550                      | -0.4759 |

\*\*\* - no data

| Lower surface |        |       |       |       |         |
|---------------|--------|-------|-------|-------|---------|
| 0.005         | 0.3323 | 0.005 | ***** | 0.005 | 0.2455  |
| 0.010         | 0.0557 | 0.010 | ***** | 0.010 | -0.1728 |

Fight 30 Test point 9

Sweep, deg = 20.0 Mach = 0.89 hp, ft = 20000. Angle of attack, deg = -0.2  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 436.5 Rnpu = 3479000.

| BL 200.8<br>Inboard station |         | Upper surface<br>BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|---|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                                       | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9707  | 0.000                                     | ***** | 0.000                      | 0.9904  |
| 0.005                       | 0.4308  | 0.005                                     | ***** | 0.005                      | 0.6821  |
| 0.010                       | 0.1766  | 0.010                                     | ***** | 0.010                      | 0.4354  |
| 0.020                       | -0.0806 | 0.020                                     | ***** | 0.020                      | 0.1003  |
| 0.040                       | -0.3078 | 0.040                                     | ***** | 0.040                      | -0.1116 |
| 0.060                       | -0.3953 | 0.060                                     | ***** | 0.060                      | -0.2385 |
| 0.080                       | -0.4580 | 0.080                                     | ***** | 0.080                      | -0.2965 |
| 0.100                       | -0.4957 | 0.100                                     | ***** | 0.100                      | -0.3382 |
| 0.125                       | -0.4894 | 0.125                                     | ***** | 0.125                      | -0.3767 |
| 0.150                       | -0.5760 | 0.150                                     | ***** | 0.150                      | -0.4323 |
| 0.175                       | -0.6095 | 0.175                                     | ***** | 0.175                      | -0.4834 |
| 0.200                       | -0.6837 | 0.200                                     | ***** | 0.200                      | -0.4970 |
| 0.250                       | -0.7714 | 0.250                                     | ***** | 0.250                      | -0.5932 |
| 0.300                       | -0.8501 | 0.300                                     | ***** | 0.300                      | -0.6600 |
| 0.350                       | -0.8679 | 0.350                                     | ***** | 0.350                      | -0.7317 |
| 0.400                       | -0.8811 | 0.400                                     | ***** | 0.400                      | -0.7884 |
| 0.450                       | -0.9027 | 0.450                                     | ***** | 0.450                      | -0.8473 |
| 0.500                       | -0.9740 | 0.500                                     | ***** | 0.500                      | -0.8829 |
| 0.550                       | -0.4686 | 0.550                                     | ***** | 0.550                      | -0.8998 |

\*\*\* - no data

|       |         | Lower surface |       |       |         |
|-------|---------|---------------|-------|-------|---------|
| x/c   | Cp      | x/c           | Cp    | x/c   | Cp      |
| 0.005 | 0.2350  | 0.005         | ***** | 0.005 | 0.1522  |
| 0.010 | -0.0527 | 0.010         | ***** | 0.010 | -0.2855 |

Fight 30 Test point 10

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = -0.2  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 433.7 Rnpu = 3469000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9706  | 0.000                    | ***** | 0.000                      | 0.9877  |
| 0.005                       | 0.4265  | 0.005                    | ***** | 0.005                      | 0.6769  |
| 0.010                       | 0.1690  | 0.010                    | ***** | 0.010                      | 0.4316  |
| 0.020                       | -0.0904 | 0.020                    | ***** | 0.020                      | 0.0939  |
| 0.040                       | -0.3172 | 0.040                    | ***** | 0.040                      | -0.1193 |
| 0.060                       | -0.4045 | 0.060                    | ***** | 0.060                      | -0.2442 |
| 0.080                       | -0.4646 | 0.080                    | ***** | 0.080                      | -0.3020 |
| 0.100                       | -0.5093 | 0.100                    | ***** | 0.100                      | -0.3415 |
| 0.125                       | -0.4872 | 0.125                    | ***** | 0.125                      | -0.3838 |
| 0.150                       | -0.5810 | 0.150                    | ***** | 0.150                      | -0.4380 |
| 0.175                       | -0.6122 | 0.175                    | ***** | 0.175                      | -0.4884 |
| 0.200                       | -0.6907 | 0.200                    | ***** | 0.200                      | -0.5024 |
| 0.250                       | -0.7751 | 0.250                    | ***** | 0.250                      | -0.5968 |
| 0.300                       | -0.8556 | 0.300                    | ***** | 0.300                      | -0.6621 |
| 0.350                       | -0.8748 | 0.350                    | ***** | 0.350                      | -0.7324 |
| 0.400                       | -0.8877 | 0.400                    | ***** | 0.400                      | -0.7897 |
| 0.450                       | -0.9059 | 0.450                    | ***** | 0.450                      | -0.8490 |
| 0.500                       | -0.9728 | 0.500                    | ***** | 0.500                      | -0.8804 |
| 0.550                       | -0.4363 | 0.550                    | ***** | 0.550                      | -0.8992 |

\*\*\* - no data

Lower surface

|       |         |       |       |       |         |
|-------|---------|-------|-------|-------|---------|
| 0.005 | 0.2389  | 0.005 | ***** | 0.005 | 0.1534  |
| 0.010 | -0.0495 | 0.010 | ***** | 0.010 | -0.2833 |



Fight 30 Test point 11

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 437.1 Rnpu = 3488000.

| BL 200.8<br>Inboard station |         | Upper surface<br>BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|---|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                                       | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8882  | 0.000                                     | ***** | 0.900                      | 0.9140  |
| 0.005                       | -0.3263 | 0.005                                     | ***** | 0.005                      | 0.5700  |
| 0.010                       | 0.0826  | 0.010                                     | ***** | 0.010                      | 0.3248  |
| 0.020                       | -0.1584 | 0.020                                     | ***** | 0.020                      | -0.0032 |
| 0.040                       | -0.3598 | 0.040                                     | ***** | 0.040                      | -0.1938 |
| 0.060                       | -0.4252 | 0.060                                     | ***** | 0.060                      | -0.3061 |
| 0.080                       | -0.4866 | 0.080                                     | ***** | 0.080                      | -0.3563 |
| 0.100                       | -0.5406 | 0.100                                     | ***** | 0.100                      | -0.3858 |
| 0.125                       | -0.4988 | 0.125                                     | ***** | 0.125                      | -0.4147 |
| 0.150                       | -0.6120 | 0.150                                     | ***** | 0.150                      | -0.4562 |
| 0.175                       | -0.6286 | 0.175                                     | ***** | 0.175                      | -0.5225 |
| 0.200                       | -0.6817 | 0.200                                     | ***** | 0.200                      | -0.5196 |
| 0.250                       | -0.7682 | 0.250                                     | ***** | 0.250                      | -0.6238 |
| 0.300                       | -0.8166 | 0.300                                     | ***** | 0.300                      | -0.6874 |
| 0.350                       | -0.7892 | 0.350                                     | ***** | 0.350                      | -0.7571 |
| 0.400                       | -0.7339 | 0.400                                     | ***** | 0.400                      | -0.7904 |
| 0.450                       | -0.7617 | 0.450                                     | ***** | 0.450                      | -0.8489 |
| 0.500                       | -0.8139 | 0.500                                     | ***** | 0.500                      | -0.8744 |
| 0.550                       | -0.4083 | 0.550                                     | ***** | 0.550                      | -0.4094 |

\*\*\* - no data

|       |         | Lower surface |       |       |         |
|-------|---------|---------------|-------|-------|---------|
| x/c   | Cp      | x/c           | Cp    | x/c   | Cp      |
| 0.005 | -0.2377 | 0.005         | ***** | 0.005 | 0.1615  |
| 0.010 | -0.0321 | 0.010         | ***** | 0.010 | -0.2434 |

Fight 30 Test point 12

Sweep, deg = 25.4 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 432.0 Rnpu = 3464000.

| Upper surface               |         |                          |       |                            |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8927  | 0.000                    | ***** | 0.000                      | 0.9134  |
| 0.005                       | 0.3141  | 0.005                    | ***** | 0.005                      | 0.5619  |
| 0.010                       | 0.0647  | 0.010                    | ***** | 0.010                      | 0.3136  |
| 0.020                       | -0.1760 | 0.020                    | ***** | 0.020                      | -0.0151 |
| 0.040                       | -0.3800 | 0.040                    | ***** | 0.040                      | -0.2067 |
| 0.060                       | -0.4406 | 0.060                    | ***** | 0.060                      | -0.3209 |
| 0.080                       | -0.5046 | 0.080                    | ***** | 0.080                      | -0.3699 |
| 0.100                       | -0.5537 | 0.100                    | ***** | 0.100                      | -0.3996 |
| 0.125                       | -0.5107 | 0.125                    | ***** | 0.125                      | -0.4271 |
| 0.150                       | -0.6202 | 0.150                    | ***** | 0.150                      | -0.4706 |
| 0.175                       | -0.6375 | 0.175                    | ***** | 0.175                      | -0.5336 |
| 0.200                       | -0.6919 | 0.200                    | ***** | 0.200                      | -0.5286 |
| 0.250                       | -0.7808 | 0.250                    | ***** | 0.250                      | -0.6275 |
| 0.300                       | -0.8346 | 0.300                    | ***** | 0.300                      | -0.6953 |
| 0.350                       | -0.7516 | 0.350                    | ***** | 0.350                      | -0.7596 |
| 0.400                       | -0.7456 | 0.400                    | ***** | 0.400                      | -0.7972 |
| 0.450                       | -0.7606 | 0.450                    | ***** | 0.450                      | -0.8514 |
| 0.500                       | -0.7564 | 0.500                    | ***** | 0.500                      | -0.8491 |
| 0.550                       | -0.4132 | 0.550                    | ***** | 0.550                      | -0.3873 |

\*\*\* - no data

| Lower surface |         |       |       |       |         |
|---------------|---------|-------|-------|-------|---------|
| 0.005         | 0.2436  | 0.005 | ***** | 0.005 | 0.1710  |
| 0.010         | -0.0199 | 0.010 | ***** | 0.010 | -0.2309 |

Fight 30 Test point 13

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 269.6 Rnpu = 2505000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8388  | 0.000                    | ***** | 0.000                      | 0.8890  |
| 0.005                       | -0.1097 | 0.005                    | ***** | 0.005                      | 0.2588  |
| 0.010                       | -0.3734 | 0.010                    | ***** | 0.010                      | -0.0483 |
| 0.020                       | -0.6010 | 0.020                    | ***** | 0.020                      | -0.3865 |
| 0.040                       | -0.7367 | 0.040                    | ***** | 0.040                      | -0.5201 |
| 0.060                       | -0.7437 | 0.060                    | ***** | 0.060                      | -0.5715 |
| 0.080                       | -0.7462 | 0.080                    | ***** | 0.080                      | -0.5739 |
| 0.100                       | -0.7363 | 0.100                    | ***** | 0.100                      | -0.5795 |
| 0.125                       | -0.6441 | 0.125                    | ***** | 0.125                      | -0.5767 |
| 0.150                       | -0.7359 | 0.150                    | ***** | 0.150                      | -0.5916 |
| 0.175                       | -0.7063 | 0.175                    | ***** | 0.175                      | -0.6024 |
| 0.200                       | -0.7547 | 0.200                    | ***** | 0.200                      | -0.5917 |
| 0.250                       | -0.7375 | 0.250                    | ***** | 0.250                      | -0.6194 |
| 0.300                       | -0.7122 | 0.300                    | ***** | 0.300                      | -0.6016 |
| 0.350                       | -0.6545 | 0.350                    | ***** | 0.350                      | -0.5909 |
| 0.400                       | -0.5888 | 0.400                    | ***** | 0.400                      | -0.5651 |
| 0.450                       | -0.5240 | 0.450                    | ***** | 0.450                      | -0.5390 |
| 0.500                       | -0.5072 | 0.500                    | ***** | 0.500                      | -0.4884 |
| 0.550                       | -0.4368 | 0.550                    | ***** | 0.550                      | -0.4718 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.4926 | 0.005 | ***** | 0.005 | 0.4312 |
| 0.010 | 0.2665 | 0.010 | ***** | 0.010 | 0.0933 |

Flight 30 Test point 14

Sweep, deg = 25.4 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 271.4 Rnpu = 2516000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8452  | 0.000                    | ***** | 0.000                      | 0.8916  |
| 0.005                       | -0.1032 | 0.005                    | ***** | 0.005                      | 0.2601  |
| 0.010                       | -0.3620 | 0.010                    | ***** | 0.010                      | -0.0452 |
| 0.020                       | -0.5884 | 0.020                    | ***** | 0.020                      | -0.3831 |
| 0.040                       | -0.7345 | 0.040                    | ***** | 0.040                      | -0.5157 |
| 0.060                       | -0.7422 | 0.060                    | ***** | 0.060                      | -0.5721 |
| 0.080                       | -0.7462 | 0.080                    | ***** | 0.080                      | -0.5784 |
| 0.100                       | -0.7416 | 0.100                    | ***** | 0.100                      | -0.5794 |
| 0.125                       | -0.6531 | 0.125                    | ***** | 0.125                      | -0.5767 |
| 0.150                       | -0.7407 | 0.150                    | ***** | 0.150                      | -0.5951 |
| 0.175                       | -0.7088 | 0.175                    | ***** | 0.175                      | -0.6068 |
| 0.200                       | -0.7587 | 0.200                    | ***** | 0.200                      | -0.5963 |
| 0.250                       | -0.7440 | 0.250                    | ***** | 0.250                      | -0.6214 |
| 0.300                       | -0.7167 | 0.300                    | ***** | 0.300                      | -0.6064 |
| 0.350                       | -0.6575 | 0.350                    | ***** | 0.350                      | -0.5954 |
| 0.400                       | -0.5938 | 0.400                    | ***** | 0.400                      | -0.5703 |
| 0.450                       | -0.5251 | 0.450                    | ***** | 0.450                      | -0.5389 |
| 0.500                       | -0.5088 | 0.500                    | ***** | 0.500                      | -0.4938 |
| 0.550                       | -0.4389 | 0.550                    | ***** | 0.550                      | -0.4713 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.4875 | 0.005 | ***** | 0.005 | 0.4311 |
| 0.010 | 0.2600 | 0.010 | ***** | 0.010 | 0.0975 |

Fight 30 Test point 15

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 269.9 Rnpu = 2508000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.7341  | 0.000                    | ***** | 0.000                      | 0.7838  |
| 0.005                       | -0.2505 | 0.005                    | ***** | 0.005                      | 0.1018  |
| 0.010                       | -0.4888 | 0.010                    | ***** | 0.010                      | -0.1948 |
| 0.020                       | -0.6818 | 0.020                    | ***** | 0.020                      | -0.5037 |
| 0.040                       | -0.7746 | 0.040                    | ***** | 0.040                      | -0.6022 |
| 0.060                       | -0.7621 | 0.060                    | ***** | 0.060                      | -0.6233 |
| 0.080                       | -0.7312 | 0.080                    | ***** | 0.080                      | -0.6125 |
| 0.100                       | -0.7260 | 0.100                    | ***** | 0.100                      | -0.6010 |
| 0.125                       | -0.6364 | 0.125                    | ***** | 0.125                      | -0.5807 |
| 0.150                       | -0.7144 | 0.150                    | ***** | 0.150                      | -0.5858 |
| 0.175                       | -0.6836 | 0.175                    | ***** | 0.175                      | -0.6063 |
| 0.200                       | -0.7195 | 0.200                    | ***** | 0.200                      | -0.5873 |
| 0.250                       | -0.6976 | 0.250                    | ***** | 0.250                      | -0.5983 |
| 0.300                       | -0.6676 | 0.300                    | ***** | 0.300                      | -0.5721 |
| 0.350                       | -0.6139 | 0.350                    | ***** | 0.350                      | -0.5628 |
| 0.400                       | -0.5595 | 0.400                    | ***** | 0.400                      | -0.5346 |
| 0.450                       | -0.4934 | 0.450                    | ***** | 0.450                      | -0.5056 |
| 0.500                       | -0.4810 | 0.500                    | ***** | 0.500                      | -0.4619 |
| 0.550                       | -0.4126 | 0.550                    | ***** | 0.550                      | -0.4480 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.5082 | 0.005 | ***** | 0.005 | 0.4722 |
| 0.010 | 0.3074 | 0.010 | ***** | 0.010 | 0.1863 |

Fight 30 Test point 16

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 2.2  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 270.3 Rnpu = 2509000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.7238  | 0.000                    | ***** | 0.000                      | 0.7722  |
| 0.005                       | -0.2827 | 0.005                    | ***** | 0.005                      | 0.0689  |
| 0.010                       | -0.5223 | 0.010                    | ***** | 0.010                      | -0.2332 |
| 0.020                       | -0.7150 | 0.020                    | ***** | 0.020                      | -0.5384 |
| 0.040                       | -0.8034 | 0.040                    | ***** | 0.040                      | -0.6279 |
| 0.060                       | -0.7848 | 0.060                    | ***** | 0.060                      | -0.6525 |
| 0.080                       | -0.7468 | 0.080                    | ***** | 0.080                      | -0.6322 |
| 0.100                       | -0.7453 | 0.100                    | ***** | 0.100                      | -0.6225 |
| 0.125                       | -0.6487 | 0.125                    | ***** | 0.125                      | -0.6014 |
| 0.150                       | -0.7215 | 0.150                    | ***** | 0.150                      | -0.5991 |
| 0.175                       | -0.6921 | 0.175                    | ***** | 0.175                      | -0.6162 |
| 0.200                       | -0.7321 | 0.200                    | ***** | 0.200                      | -0.5977 |
| 0.250                       | -0.7088 | 0.250                    | ***** | 0.250                      | -0.6088 |
| 0.300                       | -0.6784 | 0.300                    | ***** | 0.300                      | -0.5792 |
| 0.350                       | -0.6242 | 0.350                    | ***** | 0.350                      | -0.5719 |
| 0.400                       | -0.5645 | 0.400                    | ***** | 0.400                      | -0.5396 |
| 0.450                       | -0.4985 | 0.450                    | ***** | 0.450                      | -0.5073 |
| 0.500                       | -0.4840 | 0.500                    | ***** | 0.500                      | -0.4647 |
| 0.550                       | -0.4170 | 0.550                    | ***** | 0.550                      | -0.4564 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.5173 | 0.005 | ***** | 0.005 | 0.4915 |
| 0.010 | 0.3251 | 0.010 | ***** | 0.010 | 0.2115 |

Flight 30 Test point 17

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 2.2  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 270.8 Rnpu = 2513000.

| Upper surface               |         |                          |       |                            |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.6368  | 0.000                    | ***** | 0.000                      | 0.6839  |
| 0.005                       | -0.3212 | 0.005                    | ***** | 0.005                      | -0.0002 |
| 0.010                       | -0.5292 | 0.010                    | ***** | 0.010                      | -0.2722 |
| 0.020                       | -0.6854 | 0.020                    | ***** | 0.020                      | -0.5386 |
| 0.040                       | -0.7429 | 0.040                    | ***** | 0.040                      | -0.6014 |
| 0.060                       | -0.7153 | 0.060                    | ***** | 0.060                      | -0.6015 |
| 0.080                       | -0.6992 | 0.080                    | ***** | 0.080                      | -0.5940 |
| 0.100                       | -0.6837 | 0.100                    | ***** | 0.100                      | -0.5858 |
| 0.125                       | -0.5993 | 0.125                    | ***** | 0.125                      | -0.5705 |
| 0.150                       | -0.6549 | 0.150                    | ***** | 0.150                      | -0.5620 |
| 0.175                       | -0.6318 | 0.175                    | ***** | 0.175                      | -0.5621 |
| 0.200                       | -0.6589 | 0.200                    | ***** | 0.200                      | -0.5494 |
| 0.250                       | -0.6433 | 0.250                    | ***** | 0.250                      | -0.5578 |
| 0.300                       | -0.6088 | 0.300                    | ***** | 0.300                      | -0.5339 |
| 0.350                       | -0.5680 | 0.350                    | ***** | 0.350                      | -0.5147 |
| 0.400                       | -0.5138 | 0.400                    | ***** | 0.400                      | -0.4876 |
| 0.450                       | -0.4579 | 0.450                    | ***** | 0.450                      | -0.4631 |
| 0.500                       | -0.4406 | 0.500                    | ***** | 0.500                      | -0.4245 |
| 0.550                       | -0.3791 | 0.550                    | ***** | 0.550                      | -0.4245 |

\*\*\* - no data

| Lower surface |        |       |       |       |        |
|---------------|--------|-------|-------|-------|--------|
| 0.005         | 0.4880 | 0.005 | ***** | 0.005 | 0.4643 |
| 0.010         | 0.3133 | 0.010 | ***** | 0.010 | 0.2357 |

Flight 30 Test point 18

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 2.4  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 272.5 Rnpu = 2525000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.6272  | 0.000                    | ***** | 0.000                      | 0.6725  |
| 0.005                       | -0.3471 | 0.005                    | ***** | 0.005                      | -0.0291 |
| 0.010                       | -0.5612 | 0.010                    | ***** | 0.010                      | -0.3133 |
| 0.020                       | -0.7142 | 0.020                    | ***** | 0.020                      | -0.5790 |
| 0.040                       | -0.7693 | 0.040                    | ***** | 0.040                      | -0.6354 |
| 0.060                       | -0.7417 | 0.060                    | ***** | 0.060                      | -0.6385 |
| 0.080                       | -0.7227 | 0.080                    | ***** | 0.080                      | -0.6200 |
| 0.100                       | -0.7048 | 0.100                    | ***** | 0.100                      | -0.6028 |
| 0.125                       | -0.6113 | 0.125                    | ***** | 0.125                      | -0.5790 |
| 0.150                       | -0.6751 | 0.150                    | ***** | 0.150                      | -0.5738 |
| 0.175                       | -0.6414 | 0.175                    | ***** | 0.175                      | -0.5787 |
| 0.200                       | -0.6767 | 0.200                    | ***** | 0.200                      | -0.5602 |
| 0.250                       | -0.6549 | 0.250                    | ***** | 0.250                      | -0.5664 |
| 0.300                       | -0.6190 | 0.300                    | ***** | 0.300                      | -0.5410 |
| 0.350                       | -0.5711 | 0.350                    | ***** | 0.350                      | -0.5250 |
| 0.400                       | -0.5211 | 0.400                    | ***** | 0.400                      | -0.4986 |
| 0.450                       | -0.4624 | 0.450                    | ***** | 0.450                      | -0.4673 |
| 0.500                       | -0.4527 | 0.500                    | ***** | 0.500                      | -0.4307 |
| 0.550                       | -0.3875 | 0.550                    | ***** | 0.550                      | -0.4291 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.4904 | 0.005 | ***** | 0.005 | 0.4872 |
| 0.010 | 0.3242 | 0.010 | ***** | 0.010 | 0.2493 |



Fight 30 Test point 19

Sweep, deg = 30.1 Mach = 0.80 hp, ft = 34000. Angle of attack, deg = 2.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 223.9 Rnpu = 2004000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 200<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.7664  | 0.000                    | ***** | 0.000                      | 0.7951  |
| 0.005                       | -0.1434 | 0.005                    | ***** | 0.005                      | 0.1240  |
| 0.010                       | -0.3836 | 0.010                    | ***** | 0.010                      | -0.1779 |
| 0.020                       | -0.5992 | 0.020                    | ***** | 0.020                      | -0.5172 |
| 0.040                       | -0.7535 | 0.040                    | ***** | 0.040                      | -0.6375 |
| 0.060                       | -0.8260 | 0.060                    | ***** | 0.060                      | -0.7710 |
| 0.080                       | -0.8267 | 0.080                    | ***** | 0.080                      | -0.7840 |
| 0.100                       | -0.8294 | 0.100                    | ***** | 0.100                      | -0.7945 |
| 0.125                       | -0.7399 | 0.125                    | ***** | 0.125                      | -0.7379 |
| 0.150                       | -0.8370 | 0.150                    | ***** | 0.150                      | -0.7590 |
| 0.175                       | -0.8287 | 0.175                    | ***** | 0.175                      | -0.8087 |
| 0.200                       | -0.8918 | 0.200                    | ***** | 0.200                      | -0.7627 |
| 0.250                       | -0.9586 | 0.250                    | ***** | 0.250                      | -0.8299 |
| 0.300                       | -0.9980 | 0.300                    | ***** | 0.300                      | -0.8723 |
| 0.350                       | -0.9797 | 0.350                    | ***** | 0.350                      | -0.9407 |
| 0.400                       | -0.9533 | 0.400                    | ***** | 0.400                      | -0.9827 |
| 0.450                       | -0.7787 | 0.450                    | ***** | 0.450                      | -1.0217 |
| 0.500                       | -0.5927 | 0.500                    | ***** | 0.500                      | -0.8209 |
| 0.550                       | -0.3967 | 0.550                    | ***** | 0.550                      | -0.3956 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.5245 | 0.005 | ***** | 0.005 | 0.5265 |
| 0.010 | 0.3337 | 0.010 | ***** | 0.010 | 0.2537 |

Flight 30 Test point 20

Sweep, deg = 30.1 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 2.3  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 221.5 Rnpu = 1989000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.7712  | 0.000                    | ***** | 0.000                      | 0.8035  |
| 0.005                       | -0.1169 | 0.005                    | ***** | 0.005                      | 0.1407  |
| 0.010                       | -0.3632 | 0.010                    | ***** | 0.010                      | -0.1545 |
| 0.020                       | -0.5830 | 0.020                    | ***** | 0.020                      | -0.4918 |
| 0.040                       | -0.7302 | 0.040                    | ***** | 0.040                      | -0.6227 |
| 0.060                       | -0.8002 | 0.060                    | ***** | 0.060                      | -0.7625 |
| 0.080                       | -0.8109 | 0.080                    | ***** | 0.080                      | -0.7655 |
| 0.100                       | -0.8022 | 0.100                    | ***** | 0.100                      | -0.7553 |
| 0.125                       | -0.7278 | 0.125                    | ***** | 0.125                      | -0.7081 |
| 0.150                       | -0.8136 | 0.150                    | ***** | 0.150                      | -0.7393 |
| 0.175                       | -0.8047 | 0.175                    | ***** | 0.175                      | -0.7510 |
| 0.200                       | -0.8802 | 0.200                    | ***** | 0.200                      | -0.7578 |
| 0.250                       | -0.9477 | 0.250                    | ***** | 0.250                      | -0.8130 |
| 0.300                       | -0.9893 | 0.300                    | ***** | 0.300                      | -0.8676 |
| 0.350                       | -0.9622 | 0.350                    | ***** | 0.350                      | -0.9361 |
| 0.400                       | -0.8061 | 0.400                    | ***** | 0.400                      | -0.9629 |
| 0.450                       | -0.7702 | 0.450                    | ***** | 0.450                      | -1.0087 |
| 0.500                       | -0.5225 | 0.500                    | ***** | 0.500                      | -0.6329 |
| 0.550                       | -0.4075 | 0.550                    | ***** | 0.550                      | -0.3684 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.5066 | 0.005 | ***** | 0.005 | 0.5120 |
| 0.010 | 0.3093 | 0.010 | ***** | 0.010 | 0.2340 |

Fight 30 Test point 21

Sweep, deg = 25.1 Mach = 0.80 hp, ft = 34900. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 224.0 Rnpu = 2006000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8783  | 0.000                    | ***** | 0.000                      | 0.9144  |
| 0.005                       | 0.0134  | 0.005                    | ***** | 0.005                      | 0.3084  |
| 0.010                       | -0.2400 | 0.010                    | ***** | 0.010                      | 0.0037  |
| 0.020                       | -0.4825 | 0.020                    | ***** | 0.020                      | -0.3393 |
| 0.040                       | -0.6895 | 0.040                    | ***** | 0.040                      | -0.5059 |
| 0.060                       | -0.7403 | 0.060                    | ***** | 0.060                      | -0.6635 |
| 0.080                       | -0.7609 | 0.080                    | ***** | 0.080                      | -0.6195 |
| 0.100                       | -0.7769 | 0.100                    | ***** | 0.100                      | -0.6471 |
| 0.125                       | -0.7287 | 0.125                    | ***** | 0.125                      | -0.6580 |
| 0.150                       | -0.8093 | 0.150                    | ***** | 0.150                      | -0.7232 |
| 0.175                       | -0.8164 | 0.175                    | ***** | 0.175                      | -0.7075 |
| 0.200                       | -0.9003 | 0.200                    | ***** | 0.200                      | -0.7224 |
| 0.250                       | -0.9719 | 0.250                    | ***** | 0.250                      | -0.7900 |
| 0.300                       | -1.0284 | 0.300                    | ***** | 0.300                      | -0.8498 |
| 0.350                       | -1.0122 | 0.350                    | ***** | 0.350                      | -0.9326 |
| 0.400                       | -1.0066 | 0.400                    | ***** | 0.400                      | -0.9725 |
| 0.450                       | -1.0100 | 0.450                    | ***** | 0.450                      | -1.0261 |
| 0.500                       | -1.1139 | 0.500                    | ***** | 0.500                      | -1.0494 |
| 0.550                       | -0.4730 | 0.550                    | ***** | 0.550                      | -0.4637 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.5182 | 0.005 | ***** | 0.005 | 0.4890 |
| 0.010 | 0.2948 | 0.010 | ***** | 0.010 | 0.1616 |

Fight 30 Test point 22

Sweep, deg = 25.1 Mach = 0.79 hp, ft = 35000. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 219.3 Rnpu = 1982000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8814  | 0.000                    | ***** | 0.000                      | 0.9124  |
| 0.005                       | 0.0092  | 0.005                    | ***** | 0.005                      | 0.2985  |
| 0.010                       | -0.2526 | 0.010                    | ***** | 0.010                      | -0.0013 |
| 0.020                       | -0.4899 | 0.020                    | ***** | 0.020                      | -0.3494 |
| 0.040                       | -0.7073 | 0.040                    | ***** | 0.040                      | -0.5141 |
| 0.060                       | -0.7538 | 0.060                    | ***** | 0.060                      | -0.6776 |
| 0.080                       | -0.7727 | 0.080                    | ***** | 0.080                      | -0.6226 |
| 0.100                       | -0.7804 | 0.100                    | ***** | 0.100                      | -0.6478 |
| 0.125                       | -0.7269 | 0.125                    | ***** | 0.125                      | -0.6832 |
| 0.150                       | -0.8496 | 0.150                    | ***** | 0.150                      | -0.7095 |
| 0.175                       | -0.8235 | 0.175                    | ***** | 0.175                      | -0.6877 |
| 0.200                       | -0.9082 | 0.200                    | ***** | 0.200                      | -0.7194 |
| 0.250                       | -0.9765 | 0.250                    | ***** | 0.250                      | -0.8006 |
| 0.300                       | -1.0251 | 0.300                    | ***** | 0.300                      | -0.8562 |
| 0.350                       | -1.0197 | 0.350                    | ***** | 0.350                      | -0.9326 |
| 0.400                       | -0.9965 | 0.400                    | ***** | 0.400                      | -0.9704 |
| 0.450                       | -1.0086 | 0.450                    | ***** | 0.450                      | -1.0254 |
| 0.500                       | -0.7793 | 0.500                    | ***** | 0.500                      | -1.0426 |
| 0.550                       | -0.4232 | 0.550                    | ***** | 0.550                      | -0.4710 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.5121 | 0.005 | ***** | 0.005 | 0.4884 |
| 0.010 | 0.2863 | 0.010 | ***** | 0.010 | 0.1615 |

Fight 30 Test point 23

Sweep, deg = 20.1 Mach = 0.80 hp, ft = 30000. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 282.0 Rnpu = 2420000.

| Upper surface               |         |                          |       |                            |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9770  | 0.000                    | ***** | 0.000                      | 1.0055  |
| 0.005                       | 0.2971  | 0.005                    | ***** | 0.005                      | 0.5787  |
| 0.010                       | 0.0358  | 0.010                    | ***** | 0.010                      | 0.3027  |
| 0.020                       | -0.2212 | 0.020                    | ***** | 0.020                      | -0.0393 |
| 0.040                       | -0.4468 | 0.040                    | ***** | 0.040                      | -0.2445 |
| 0.060                       | -0.5267 | 0.060                    | ***** | 0.060                      | -0.3646 |
| 0.080                       | -0.5571 | 0.080                    | ***** | 0.080                      | -0.4116 |
| 0.100                       | -0.6220 | 0.100                    | ***** | 0.100                      | -0.4434 |
| 0.125                       | -0.5837 | 0.125                    | ***** | 0.125                      | -0.4700 |
| 0.150                       | -0.6700 | 0.150                    | ***** | 0.150                      | -0.5320 |
| 0.175                       | -0.6981 | 0.175                    | ***** | 0.175                      | -0.5606 |
| 0.200                       | -0.7838 | 0.200                    | ***** | 0.200                      | -0.6065 |
| 0.250                       | -0.8689 | 0.250                    | ***** | 0.250                      | -0.6854 |
| 0.300                       | -0.9398 | 0.300                    | ***** | 0.300                      | -0.7408 |
| 0.350                       | -0.9489 | 0.350                    | ***** | 0.350                      | -0.8215 |
| 0.400                       | -0.9317 | 0.400                    | ***** | 0.400                      | -0.8662 |
| 0.450                       | -0.9593 | 0.450                    | ***** | 0.450                      | -0.9215 |
| 0.500                       | -1.0630 | 0.500                    | ***** | 0.500                      | -0.9505 |
| 0.550                       | -0.5389 | 0.550                    | ***** | 0.550                      | -0.9172 |

\*\*\* - no data

| Lower surface |        |       |       |       |         |
|---------------|--------|-------|-------|-------|---------|
| 0.005         | 0.3702 | 0.005 | ***** | 0.005 | 0.3003  |
| 0.010         | 0.0988 | 0.010 | ***** | 0.010 | -0.1093 |

Fight 30 Test point 24

Sweep, deg = 20.1 Mach = 0.80 hp, ft = 30000. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 281.3 Rnpu = 2421000.

| BL 200.8<br>Inboard station |         | Upper surface<br>BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|---|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                                       | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9766  | 0.000                                     | ***** | 0.000                      | 1.0046  |
| 0.005                       | 0.2632  | 0.005                                     | ***** | 0.005                      | 0.5532  |
| 0.010                       | 0.0002  | 0.010                                     | ***** | 0.010                      | 0.2783  |
| 0.020                       | -0.2561 | 0.020                                     | ***** | 0.020                      | -0.0741 |
| 0.040                       | -0.4789 | 0.040                                     | ***** | 0.040                      | -0.2726 |
| 0.060                       | -0.5470 | 0.060                                     | ***** | 0.060                      | -0.3939 |
| 0.080                       | -0.5917 | 0.080                                     | ***** | 0.080                      | -0.4372 |
| 0.100                       | -0.6391 | 0.100                                     | ***** | 0.100                      | -0.4720 |
| 0.125                       | -0.6119 | 0.125                                     | ***** | 0.125                      | -0.4884 |
| 0.150                       | -0.6907 | 0.150                                     | ***** | 0.150                      | -0.5570 |
| 0.175                       | -0.7163 | 0.175                                     | ***** | 0.175                      | -0.5672 |
| 0.200                       | -0.7992 | 0.200                                     | ***** | 0.200                      | -0.6190 |
| 0.250                       | -0.8815 | 0.250                                     | ***** | 0.250                      | -0.7042 |
| 0.300                       | -0.9596 | 0.300                                     | ***** | 0.300                      | -0.7581 |
| 0.350                       | -0.9592 | 0.350                                     | ***** | 0.350                      | -0.8438 |
| 0.400                       | -0.9693 | 0.400                                     | ***** | 0.400                      | -0.8832 |
| 0.450                       | -0.9646 | 0.450                                     | ***** | 0.450                      | -0.9393 |
| 0.500                       | -1.0756 | 0.500                                     | ***** | 0.500                      | -0.9718 |
| 0.550                       | -0.5326 | 0.550                                     | ***** | 0.550                      | -0.9381 |

\*\*\* - no data

|       |        | Lower surface |       |       |         |
|-------|--------|---------------|-------|-------|---------|
| x/c   | Cp     | x/c           | Cp    | x/c   | Cp      |
| 0.005 | 0.4027 | 0.005         | ***** | 0.005 | 0.3292  |
| 0.010 | 0.1374 | 0.010         | ***** | 0.010 | -0.0736 |

Fight 30 Test point 25

Sweep, deg = 20.1 Mach = 0.80 hp, ft = 29900. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 280.4 Rnpu = 2413000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 1.0328  | 0.000                    | ***** | 0.000                      | 1.0663  |
| 0.005                       | 0.2922  | 0.005                    | ***** | 0.005                      | 0.6123  |
| 0.010                       | 0.0181  | 0.010                    | ***** | 0.010                      | 0.3231  |
| 0.020                       | -0.2497 | 0.020                    | ***** | 0.020                      | -0.0353 |
| 0.040                       | -0.4796 | 0.040                    | ***** | 0.040                      | -0.2442 |
| 0.060                       | -0.5589 | 0.060                    | ***** | 0.060                      | -0.3617 |
| 0.080                       | -0.6181 | 0.080                    | ***** | 0.080                      | -0.4090 |
| 0.100                       | -0.6283 | 0.100                    | ***** | 0.100                      | -0.4491 |
| 0.125                       | -0.6142 | 0.125                    | ***** | 0.125                      | -0.4611 |
| 0.150                       | -0.6998 | 0.150                    | ***** | 0.150                      | -0.5243 |
| 0.175                       | -0.7255 | 0.175                    | ***** | 0.175                      | -0.5581 |
| 0.200                       | -0.8060 | 0.200                    | ***** | 0.200                      | -0.5968 |
| 0.250                       | -0.9023 | 0.250                    | ***** | 0.250                      | -0.6856 |
| 0.300                       | -0.9806 | 0.300                    | ***** | 0.300                      | -0.7414 |
| 0.350                       | -0.9866 | 0.350                    | ***** | 0.350                      | -0.8230 |
| 0.400                       | -1.0054 | 0.400                    | ***** | 0.400                      | -0.8626 |
| 0.450                       | -1.0188 | 0.450                    | ***** | 0.450                      | -0.9229 |
| 0.500                       | -1.1137 | 0.500                    | ***** | 0.500                      | -0.9365 |
| 0.550                       | -0.4419 | 0.550                    | ***** | 0.550                      | -0.8994 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |         |
|-------|--------|-------|-------|-------|---------|
| 0.005 | 0.4600 | 0.005 | ***** | 0.005 | 0.3639  |
| 0.010 | 0.1857 | 0.010 | ***** | 0.010 | -0.0522 |

Fight 30 Test point 26

Sweep, deg = 20.1 Mach = 0.80 hp, ft = 30300. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 278.9 Rnpu = 2400000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9752  | 0.000                    | ***** | 0.000                      | 1.0029  |
| 0.005                       | 0.3069  | 0.005                    | ***** | 0.005                      | 0.5848  |
| 0.010                       | 0.0450  | 0.010                    | ***** | 0.010                      | 0.3132  |
| 0.020                       | -0.2123 | 0.020                    | ***** | 0.020                      | -0.0332 |
| 0.040                       | -0.4374 | 0.040                    | ***** | 0.040                      | -0.2376 |
| 0.060                       | -0.5148 | 0.060                    | ***** | 0.060                      | -0.3575 |
| 0.080                       | -0.5530 | 0.080                    | ***** | 0.080                      | -0.4031 |
| 0.100                       | -0.6181 | 0.100                    | ***** | 0.100                      | -0.4389 |
| 0.125                       | -0.5821 | 0.125                    | ***** | 0.125                      | -0.4658 |
| 0.150                       | -0.6630 | 0.150                    | ***** | 0.150                      | -0.5224 |
| 0.175                       | -0.6950 | 0.175                    | ***** | 0.175                      | -0.5605 |
| 0.200                       | -0.7758 | 0.200                    | ***** | 0.200                      | -0.5996 |
| 0.250                       | -0.8624 | 0.250                    | ***** | 0.250                      | -0.6795 |
| 0.300                       | -0.9329 | 0.300                    | ***** | 0.300                      | -0.7352 |
| 0.350                       | -0.9384 | 0.350                    | ***** | 0.350                      | -0.8159 |
| 0.400                       | -0.9260 | 0.400                    | ***** | 0.400                      | -0.8631 |
| 0.450                       | -0.9512 | 0.450                    | ***** | 0.450                      | -0.9143 |
| 0.500                       | -1.0604 | 0.500                    | ***** | 0.500                      | -0.9493 |
| 0.550                       | -0.5357 | 0.550                    | ***** | 0.550                      | -0.9101 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |         |
|-------|--------|-------|-------|-------|---------|
| 0.005 | 0.3615 | 0.005 | ***** | 0.005 | 0.2882  |
| 0.010 | 0.0859 | 0.010 | ***** | 0.010 | -0.1227 |



Fight 30 Test point 27

Sweep, deg = 20.1 Mach = 0.81 hp, ft = 30000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 284.9 Rnpu = 2440000.

| Upper surface               |         |                          |       |                            |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.9760  | 0.000                    | ***** | 0.000                      | 1.0116  |
| 0.005                       | 0.1777  | 0.005                    | ***** | 0.005                      | 0.4869  |
| 0.010                       | -0.0895 | 0.010                    | ***** | 0.010                      | 0.1958  |
| 0.020                       | -0.3465 | 0.020                    | ***** | 0.020                      | -0.1581 |
| 0.040                       | -0.5977 | 0.040                    | ***** | 0.040                      | -0.3525 |
| 0.060                       | -0.6452 | 0.060                    | ***** | 0.060                      | -0.4741 |
| 0.080                       | -0.6669 | 0.080                    | ***** | 0.080                      | -0.5069 |
| 0.100                       | -0.7003 | 0.100                    | ***** | 0.100                      | -0.5433 |
| 0.125                       | -0.6685 | 0.125                    | ***** | 0.125                      | -0.5818 |
| 0.150                       | -0.7654 | 0.150                    | ***** | 0.150                      | -0.5582 |
| 0.175                       | -0.7738 | 0.175                    | ***** | 0.175                      | -0.6113 |
| 0.200                       | -0.8475 | 0.200                    | ***** | 0.200                      | -0.6518 |
| 0.250                       | -0.9337 | 0.250                    | ***** | 0.250                      | -0.7443 |
| 0.300                       | -1.0119 | 0.300                    | ***** | 0.300                      | -0.8049 |
| 0.350                       | -1.0190 | 0.350                    | ***** | 0.350                      | -0.8778 |
| 0.400                       | -1.0299 | 0.400                    | ***** | 0.400                      | -0.9206 |
| 0.450                       | -1.0336 | 0.450                    | ***** | 0.450                      | -0.9768 |
| 0.500                       | -0.6247 | 0.500                    | ***** | 0.500                      | -1.0072 |
| 0.550                       | -0.4456 | 0.550                    | ***** | 0.550                      | -0.9228 |

\*\*\* - no data

| Lower surface |        |       |       |       |        |
|---------------|--------|-------|-------|-------|--------|
| 0.005         | 0.4887 | 0.005 | ***** | 0.005 | 0.4208 |
| 0.010         | 0.2353 | 0.010 | ***** | 0.010 | 0.0408 |

Fight 30 Test point 28

Sweep, deg = 25.4 Mach = 0.80 hp, ft = 30000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 283.1 Rnpu = 2430000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8934  | 0.000                    | ***** | 0.000                      | 0.9230  |
| 0.005                       | 0.1669  | 0.005                    | ***** | 0.005                      | 0.4412  |
| 0.010                       | -0.0839 | 0.010                    | ***** | 0.010                      | 0.1663  |
| 0.020                       | -0.3260 | 0.020                    | ***** | 0.020                      | -0.1697 |
| 0.040                       | -0.5288 | 0.040                    | ***** | 0.040                      | -0.3503 |
| 0.060                       | -0.5841 | 0.060                    | ***** | 0.060                      | -0.4594 |
| 0.080                       | -0.6206 | 0.080                    | ***** | 0.080                      | -0.4947 |
| 0.100                       | -0.6651 | 0.100                    | ***** | 0.100                      | -0.5274 |
| 0.125                       | -0.6243 | 0.125                    | ***** | 0.125                      | -0.5256 |
| 0.150                       | -0.7141 | 0.150                    | ***** | 0.150                      | -0.6019 |
| 0.175                       | -0.7270 | 0.175                    | ***** | 0.175                      | -0.6181 |
| 0.200                       | -0.7926 | 0.200                    | ***** | 0.200                      | -0.6439 |
| 0.250                       | -0.8586 | 0.250                    | ***** | 0.250                      | -0.7206 |
| 0.300                       | -0.9168 | 0.300                    | ***** | 0.300                      | -0.7717 |
| 0.350                       | -0.9296 | 0.350                    | ***** | 0.350                      | -0.8389 |
| 0.400                       | -0.9413 | 0.400                    | ***** | 0.400                      | -0.8844 |
| 0.450                       | -0.9245 | 0.450                    | ***** | 0.450                      | -0.9374 |
| 0.500                       | -0.8108 | 0.500                    | ***** | 0.500                      | -0.9645 |
| 0.550                       | -0.4187 | 0.550                    | ***** | 0.550                      | -0.5646 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |         |
|-------|--------|-------|-------|-------|---------|
| 0.005 | 0.3918 | 0.005 | ***** | 0.005 | 0.3458  |
| 0.010 | 0.1505 | 0.010 | ***** | 0.010 | -0.0156 |

Flight 30 Test point 29

Sweep, deg = 25.4 Mach = 0.80 hp, ft = 30300. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 276.9 Rnpu = 2391000.

| Upper surface               |         |                          |       |                            |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8929  | 0.000                    | ***** | 0.000                      | 0.9224  |
| 0.005                       | 0.2666  | 0.005                    | ***** | 0.005                      | 0.5217  |
| 0.010                       | 0.0252  | 0.010                    | ***** | 0.010                      | 0.2648  |
| 0.020                       | -0.2167 | 0.020                    | ***** | 0.020                      | -0.0684 |
| 0.040                       | -0.4206 | 0.040                    | ***** | 0.040                      | -0.2550 |
| 0.060                       | -0.4884 | 0.060                    | ***** | 0.060                      | -0.3614 |
| 0.080                       | -0.5419 | 0.080                    | ***** | 0.080                      | -0.4081 |
| 0.100                       | -0.5512 | 0.100                    | ***** | 0.100                      | -0.4357 |
| 0.125                       | -0.5271 | 0.125                    | ***** | 0.125                      | -0.4727 |
| 0.150                       | -0.6257 | 0.150                    | ***** | 0.150                      | -0.5147 |
| 0.175                       | -0.6593 | 0.175                    | ***** | 0.175                      | -0.5684 |
| 0.200                       | -0.7388 | 0.200                    | ***** | 0.200                      | -0.5927 |
| 0.250                       | -0.8002 | 0.250                    | ***** | 0.250                      | -0.6514 |
| 0.300                       | -0.8562 | 0.300                    | ***** | 0.300                      | -0.6914 |
| 0.350                       | -0.8438 | 0.350                    | ***** | 0.350                      | -0.7731 |
| 0.400                       | -0.7354 | 0.400                    | ***** | 0.400                      | -0.8081 |
| 0.450                       | -0.7554 | 0.450                    | ***** | 0.450                      | -0.8639 |
| 0.500                       | -0.6970 | 0.500                    | ***** | 0.500                      | -0.8730 |
| 0.550                       | -0.4053 | 0.550                    | ***** | 0.550                      | -0.3763 |

\*\*\* - no data

| Lower surface |        |       |       |       |         |
|---------------|--------|-------|-------|-------|---------|
| 0.005         | 0.2918 | 0.005 | ***** | 0.005 | 0.2397  |
| 0.010         | 0.0316 | 0.010 | ***** | 0.010 | -0.1468 |

Flight 30 Test point 30

Sweep, deg = 25.4 Mach = 0.82 hp, ft = 29900. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 293.0 Rnpu = 2483000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8895  | 0.000                    | ***** | 0.000                      | 0.9224  |
| 0.005                       | 0.1050  | 0.005                    | ***** | 0.005                      | 0.3906  |
| 0.010                       | -0.1435 | 0.010                    | ***** | 0.010                      | 0.1063  |
| 0.020                       | -0.3840 | 0.020                    | ***** | 0.020                      | -0.2828 |
| 0.040                       | -0.6206 | 0.040                    | ***** | 0.040                      | -0.4108 |
| 0.060                       | -0.6533 | 0.060                    | ***** | 0.060                      | -0.5442 |
| 0.080                       | -0.6847 | 0.080                    | ***** | 0.080                      | -0.5540 |
| 0.100                       | -0.6953 | 0.100                    | ***** | 0.100                      | -0.5711 |
| 0.125                       | -0.6576 | 0.125                    | ***** | 0.125                      | -0.6120 |
| 0.150                       | -0.7405 | 0.150                    | ***** | 0.150                      | -0.6014 |
| 0.175                       | -0.7615 | 0.175                    | ***** | 0.175                      | -0.6192 |
| 0.200                       | -0.8333 | 0.200                    | ***** | 0.200                      | -0.6595 |
| 0.250                       | -0.8996 | 0.250                    | ***** | 0.250                      | -0.7373 |
| 0.300                       | -0.9579 | 0.300                    | ***** | 0.300                      | -0.7996 |
| 0.350                       | -0.9671 | 0.350                    | ***** | 0.350                      | -0.8797 |
| 0.400                       | -0.9506 | 0.400                    | ***** | 0.400                      | -0.9219 |
| 0.450                       | -0.9787 | 0.450                    | ***** | 0.450                      | -0.9722 |
| 0.500                       | -1.0836 | 0.500                    | ***** | 0.500                      | -1.0061 |
| 0.550                       | -0.4807 | 0.550                    | ***** | 0.550                      | -0.4544 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.4628 | 0.005 | ***** | 0.005 | 0.4165 |
| 0.010 | 0.2340 | 0.010 | ***** | 0.010 | 0.0753 |

Fight 30 Test point 31

Sweep, deg = 30.1 Mach = 0.81 hp, ft = 30000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 284.8 Rho = 2441000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8023  | 0.000                    | ***** | 0.000                      | 0.8330  |
| 0.005                       | 0.0811  | 0.005                    | ***** | 0.005                      | 0.3357  |
| 0.010                       | -0.1501 | 0.010                    | ***** | 0.010                      | 0.0701  |
| 0.020                       | -0.3674 | 0.020                    | ***** | 0.020                      | -0.2451 |
| 0.040                       | -0.5485 | 0.040                    | ***** | 0.040                      | -0.4090 |
| 0.060                       | -0.5677 | 0.060                    | ***** | 0.060                      | -0.4954 |
| 0.080                       | -0.6008 | 0.080                    | ***** | 0.080                      | -0.5181 |
| 0.100                       | -0.6570 | 0.100                    | ***** | 0.100                      | -0.5621 |
| 0.125                       | -0.6042 | 0.125                    | ***** | 0.125                      | -0.5270 |
| 0.150                       | -0.6843 | 0.150                    | ***** | 0.150                      | -0.6090 |
| 0.175                       | -0.7032 | 0.175                    | ***** | 0.175                      | -0.6409 |
| 0.200                       | -0.7704 | 0.200                    | ***** | 0.200                      | -0.6500 |
| 0.250                       | -0.8163 | 0.250                    | ***** | 0.250                      | -0.7110 |
| 0.300                       | -0.8145 | 0.300                    | ***** | 0.300                      | -0.7358 |
| 0.350                       | -0.7475 | 0.350                    | ***** | 0.350                      | -0.8001 |
| 0.400                       | -0.7650 | 0.400                    | ***** | 0.400                      | -0.8303 |
| 0.450                       | -0.7584 | 0.450                    | ***** | 0.450                      | -0.8827 |
| 0.500                       | -0.5101 | 0.500                    | ***** | 0.500                      | -0.3697 |
| 0.550                       | -0.4057 | 0.550                    | ***** | 0.550                      | -0.3706 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.3694 | 0.005 | ***** | 0.005 | 0.3455 |
| 0.010 | 0.1457 | 0.010 | ***** | 0.010 | 0.0201 |

Fight 30 Test point 32

Sweep, deg = 30.1 Mach = 0.80 hp, ft = 29800. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 286.1 Rrho = 2453000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.8054  | 0.000                    | ***** | 0.000                      | 0.8404  |
| 0.005                       | 0.1479  | 0.005                    | ***** | 0.005                      | 0.3937  |
| 0.010                       | -0.0813 | 0.010                    | ***** | 0.010                      | 0.1398  |
| 0.020                       | -0.2988 | 0.020                    | ***** | 0.020                      | -0.1668 |
| 0.040                       | -0.4842 | 0.040                    | ***** | 0.040                      | -0.3395 |
| 0.060                       | -0.5364 | 0.060                    | ***** | 0.060                      | -0.4311 |
| 0.080                       | -0.5776 | 0.080                    | ***** | 0.080                      | -0.4673 |
| 0.100                       | -0.5916 | 0.100                    | ***** | 0.100                      | -0.4843 |
| 0.125                       | -0.5603 | 0.125                    | ***** | 0.125                      | -0.5120 |
| 0.150                       | -0.6508 | 0.150                    | ***** | 0.150                      | -0.5224 |
| 0.175                       | -0.6645 | 0.175                    | ***** | 0.175                      | -0.5877 |
| 0.200                       | -0.7066 | 0.200                    | ***** | 0.200                      | -0.6002 |
| 0.250                       | -0.6783 | 0.250                    | ***** | 0.250                      | -0.6502 |
| 0.300                       | -0.7511 | 0.300                    | ***** | 0.300                      | -0.6942 |
| 0.350                       | -0.7511 | 0.350                    | ***** | 0.350                      | -0.7598 |
| 0.400                       | -0.7348 | 0.400                    | ***** | 0.400                      | -0.7829 |
| 0.450                       | -0.7207 | 0.450                    | ***** | 0.450                      | -0.4471 |
| 0.500                       | -0.4704 | 0.500                    | ***** | 0.500                      | -0.3966 |
| 0.550                       | -0.4118 | 0.550                    | ***** | 0.550                      | -0.4077 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |         |
|-------|--------|-------|-------|-------|---------|
| 0.005 | 0.3088 | 0.005 | ***** | 0.005 | 0.2775  |
| 0.010 | 0.0768 | 0.010 | ***** | 0.010 | -0.0661 |

Flight 30 Test point 33

Sweep, deg = 30.1 Mach = 0.80 hp, ft = 30000. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 281.6 Rnpu = 2424000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.7798  | 0.000                    | ***** | 0.000                      | 0.8090  |
| 0.005                       | -0.0806 | 0.005                    | ***** | 0.005                      | 0.1875  |
| 0.010                       | -0.3230 | 0.010                    | ***** | 0.010                      | -0.1013 |
| 0.020                       | -0.5456 | 0.020                    | ***** | 0.020                      | -0.4306 |
| 0.040                       | -0.7105 | 0.040                    | ***** | 0.040                      | -0.5666 |
| 0.060                       | -0.7491 | 0.060                    | ***** | 0.060                      | -0.6996 |
| 0.080                       | -0.7722 | 0.080                    | ***** | 0.080                      | -0.6305 |
| 0.100                       | -0.7467 | 0.100                    | ***** | 0.100                      | -0.6521 |
| 0.125                       | -0.7055 | 0.125                    | ***** | 0.125                      | -0.7118 |
| 0.150                       | -0.7975 | 0.150                    | ***** | 0.150                      | -0.7717 |
| 0.175                       | -0.8009 | 0.175                    | ***** | 0.175                      | -0.7159 |
| 0.200                       | -0.8681 | 0.200                    | ***** | 0.200                      | -0.7132 |
| 0.250                       | -0.8991 | 0.250                    | ***** | 0.250                      | -0.7944 |
| 0.300                       | -0.9726 | 0.300                    | ***** | 0.300                      | -0.8403 |
| 0.350                       | -0.9348 | 0.350                    | ***** | 0.350                      | -0.8935 |
| 0.400                       | -0.7610 | 0.400                    | ***** | 0.400                      | -0.9239 |
| 0.450                       | -0.7669 | 0.450                    | ***** | 0.450                      | -0.9694 |
| 0.500                       | -0.5050 | 0.500                    | ***** | 0.500                      | -0.4561 |
| 0.550                       | -0.3990 | 0.550                    | ***** | 0.550                      | -0.3580 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.4888 | 0.005 | ***** | 0.005 | 0.4759 |
| 0.010 | 0.2855 | 0.010 | ***** | 0.010 | 0.1973 |

Fight 30 Test point 34

Sweep, deg = 34.9 Mach = 0.81 hp, ft = 30000. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 285.2 Rnpu = 2443000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.7059  | 0.000                    | ***** | 0.000                      | 0.7388  |
| 0.005                       | -0.0380 | 0.005                    | ***** | 0.005                      | 0.1999  |
| 0.010                       | -0.2571 | 0.010                    | ***** | 0.010                      | -0.0592 |
| 0.020                       | -0.4566 | 0.020                    | ***** | 0.020                      | -0.3486 |
| 0.040                       | -0.6162 | 0.040                    | ***** | 0.040                      | -0.4803 |
| 0.060                       | -0.5797 | 0.060                    | ***** | 0.060                      | -0.5277 |
| 0.080                       | -0.6303 | 0.080                    | ***** | 0.080                      | -0.5707 |
| 0.100                       | -0.6698 | 0.100                    | ***** | 0.100                      | -0.6002 |
| 0.125                       | -0.5963 | 0.125                    | ***** | 0.125                      | -0.5535 |
| 0.150                       | -0.6724 | 0.150                    | ***** | 0.150                      | -0.6103 |
| 0.175                       | -0.5825 | 0.175                    | ***** | 0.175                      | -0.6452 |
| 0.200                       | -0.6803 | 0.200                    | ***** | 0.200                      | -0.6460 |
| 0.250                       | -0.7420 | 0.250                    | ***** | 0.250                      | -0.6783 |
| 0.300                       | -0.7582 | 0.300                    | ***** | 0.300                      | -0.6965 |
| 0.350                       | -0.7378 | 0.350                    | ***** | 0.350                      | -0.5815 |
| 0.400                       | -0.6988 | 0.400                    | ***** | 0.400                      | -0.5136 |
| 0.450                       | -0.5148 | 0.450                    | ***** | 0.450                      | -0.4834 |
| 0.500                       | -0.4543 | 0.500                    | ***** | 0.500                      | -0.4272 |
| 0.550                       | -0.4007 | 0.550                    | ***** | 0.550                      | -0.4087 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.3765 | 0.005 | ***** | 0.005 | 0.3759 |
| 0.010 | 0.1823 | 0.010 | ***** | 0.010 | 0.1057 |



Fight 30 Test point 35

Sweep, deg = 34.8 Mach = 0.81 hp, ft = 29900. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 287.8 Rnpu = 2458000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.7198  | 0.000                    | ***** | 0.000                      | 0.7506  |
| 0.005                       | 0.0899  | 0.005                    | ***** | 0.005                      | 0.3141  |
| 0.010                       | -0.1208 | 0.010                    | ***** | 0.010                      | 0.0720  |
| 0.020                       | -0.3208 | 0.020                    | ***** | 0.020                      | -0.2098 |
| 0.040                       | -0.4592 | 0.040                    | ***** | 0.040                      | -0.3624 |
| 0.060                       | -0.4986 | 0.060                    | ***** | 0.060                      | -0.4220 |
| 0.080                       | -0.5466 | 0.080                    | ***** | 0.080                      | -0.4583 |
| 0.100                       | -0.5695 | 0.100                    | ***** | 0.100                      | -0.4683 |
| 0.125                       | -0.5303 | 0.125                    | ***** | 0.125                      | -0.4907 |
| 0.150                       | -0.5858 | 0.150                    | ***** | 0.150                      | -0.5167 |
| 0.175                       | -0.5880 | 0.175                    | ***** | 0.175                      | -0.5658 |
| 0.200                       | -0.6513 | 0.200                    | ***** | 0.200                      | -0.5215 |
| 0.250                       | -0.6794 | 0.250                    | ***** | 0.250                      | -0.5893 |
| 0.300                       | -0.6610 | 0.300                    | ***** | 0.300                      | -0.5701 |
| 0.350                       | -0.6438 | 0.350                    | ***** | 0.350                      | -0.5923 |
| 0.400                       | -0.6465 | 0.400                    | ***** | 0.400                      | -0.5333 |
| 0.450                       | -0.4734 | 0.450                    | ***** | 0.450                      | -0.4775 |
| 0.500                       | -0.4547 | 0.500                    | ***** | 0.500                      | -0.4196 |
| 0.550                       | -0.3961 | 0.550                    | ***** | 0.550                      | -0.4621 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |         |
|-------|--------|-------|-------|-------|---------|
| 0.005 | 0.2794 | 0.005 | ***** | 0.005 | 0.2642  |
| 0.010 | 0.0728 | 0.010 | ***** | 0.010 | -0.0368 |

Fight 30 Test point 36

Sweep, deg = 34.8 Mach = 0.81 hp, ft = 29900. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 290.4 Rnpu = 2471000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |       | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|-------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp    | x/c                        | Cp      |
| 0.000                       | 0.6914  | 0.000                    | ***** | 0.000                      | 0.7185  |
| 0.005                       | -0.1163 | 0.005                    | ***** | 0.005                      | 0.1173  |
| 0.010                       | -0.3319 | 0.010                    | ***** | 0.010                      | -0.1509 |
| 0.020                       | -0.5346 | 0.020                    | ***** | 0.020                      | -0.4471 |
| 0.040                       | -0.7107 | 0.040                    | ***** | 0.040                      | -0.5758 |
| 0.060                       | -0.7263 | 0.060                    | ***** | 0.060                      | -0.6890 |
| 0.080                       | -0.7176 | 0.080                    | ***** | 0.080                      | -0.6468 |
| 0.100                       | -0.7425 | 0.100                    | ***** | 0.100                      | -0.6437 |
| 0.125                       | -0.6729 | 0.125                    | ***** | 0.125                      | -0.7014 |
| 0.150                       | -0.7416 | 0.150                    | ***** | 0.150                      | -0.6573 |
| 0.175                       | -0.7408 | 0.175                    | ***** | 0.175                      | -0.6866 |
| 0.200                       | -0.8009 | 0.200                    | ***** | 0.200                      | -0.7118 |
| 0.250                       | -0.7732 | 0.250                    | ***** | 0.250                      | -0.7637 |
| 0.300                       | -0.7343 | 0.300                    | ***** | 0.300                      | -0.7809 |
| 0.350                       | -0.7459 | 0.350                    | ***** | 0.350                      | -0.8202 |
| 0.400                       | -0.7618 | 0.400                    | ***** | 0.400                      | -0.7913 |
| 0.450                       | -0.7138 | 0.450                    | ***** | 0.450                      | -0.3989 |
| 0.500                       | -0.4594 | 0.500                    | ***** | 0.500                      | -0.3812 |
| 0.550                       | -0.4006 | 0.550                    | ***** | 0.550                      | -0.3886 |

\*\*\* - no data

Lower surface

|       |        |       |       |       |        |
|-------|--------|-------|-------|-------|--------|
| 0.005 | 0.4394 | 0.005 | ***** | 0.005 | 0.4453 |
| 0.010 | 0.2541 | 0.010 | ***** | 0.010 | 0.1981 |

Fight 31 Test point 1

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 4.9  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 169.6 Rnpu = 1703000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.3404  | 0.000                    | 0.3312  | 0.000                      | 0.3801  |
| 0.005                       | -1.0803 | 0.005                    | -1.0724 | 0.005                      | -0.7131 |
| 0.010                       | -1.3025 | 0.010                    | -1.3559 | 0.010                      | -1.0814 |
| 0.020                       | -1.5024 | 0.020                    | -1.5196 | 0.020                      | -1.4161 |
| 0.040                       | -1.5422 | 0.040                    | -1.5557 | 0.040                      | -1.5423 |
| 0.060                       | -1.5460 | 0.060                    | -1.5141 | 0.060                      | -1.3690 |
| 0.080                       | -1.0658 | 0.080                    | -1.2594 | 0.080                      | -0.9270 |
| 0.100                       | -0.9582 | 0.100                    | -0.9245 | 0.100                      | -0.9206 |
| 0.125                       | -0.8136 | 0.125                    | -0.8897 | 0.125                      | -0.8748 |
| 0.150                       | -0.8960 | 0.150                    | -0.8818 | 0.150                      | -0.8236 |
| 0.175                       | -0.8324 | 0.175                    | -0.8575 | 0.175                      | -0.8043 |
| 0.200                       | -0.8565 | 0.200                    | -0.8468 | 0.200                      | -0.7592 |
| 0.250                       | -0.7997 | 0.250                    | -0.8388 | 0.250                      | -0.7235 |
| 0.300                       | -0.7357 | 0.300                    | -0.7523 | 0.300                      | -0.6594 |
| 0.350                       | -0.6581 | 0.350                    | -0.6633 | 0.350                      | -0.6198 |
| 0.400                       | -0.5883 | 0.400                    | -0.6294 | 0.400                      | -0.5685 |
| 0.450                       | -0.5048 | 0.450                    | -0.5426 | 0.450                      | -0.5267 |
| 0.500                       | -0.4905 | 0.500                    | -0.5098 | 0.500                      | -0.4603 |
| 0.550                       | -0.4097 | 0.550                    | -0.4553 | 0.550                      | -0.4248 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.6625 | 0.005 | 0.7314 | 0.005 | 0.7089 |
| 0.010         | 0.5839 | 0.010 | 0.6223 | 0.010 | 0.5850 |

Fight 31 Test point 2

Sweep, deg = 34.8 Mach = 0.70 hp, ft = 35000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 168.2 Rnpu = 1695000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.6980  | 0.000                    | 0.7580  | 0.000                      | 0.7370  |
| 0.005                       | 0.0869  | 0.005                    | 0.1314  | 0.005                      | 0.3523  |
| 0.010                       | -0.1150 | 0.010                    | -0.0450 | 0.010                      | 0.1193  |
| 0.020                       | -0.2876 | 0.020                    | -0.2442 | 0.020                      | -0.1257 |
| 0.040                       | -0.3999 | 0.040                    | -0.3551 | 0.040                      | -0.2592 |
| 0.060                       | -0.4347 | 0.060                    | -0.3683 | 0.060                      | -0.3177 |
| 0.080                       | -0.4525 | 0.080                    | -0.3939 | 0.080                      | -0.3267 |
| 0.100                       | -0.4479 | 0.100                    | -0.3919 | 0.100                      | -0.3409 |
| 0.125                       | -0.4184 | 0.125                    | -0.4053 | 0.125                      | -0.3562 |
| 0.150                       | -0.4616 | 0.150                    | -0.4285 | 0.150                      | -0.3670 |
| 0.175                       | -0.4653 | 0.175                    | -0.4377 | 0.175                      | -0.3845 |
| 0.200                       | -0.5076 | 0.200                    | -0.4557 | 0.200                      | -0.3759 |
| 0.250                       | -0.4991 | 0.250                    | -0.4969 | 0.250                      | -0.4123 |
| 0.300                       | -0.4753 | 0.300                    | -0.4809 | 0.300                      | -0.4060 |
| 0.350                       | -0.4641 | 0.350                    | -0.4346 | 0.350                      | -0.4093 |
| 0.400                       | -0.4199 | 0.400                    | -0.4435 | 0.400                      | -0.3923 |
| 0.450                       | -0.3729 | 0.450                    | -0.3908 | 0.450                      | -0.3824 |
| 0.500                       | -0.3824 | 0.500                    | -0.3998 | 0.500                      | -0.3596 |
| 0.550                       | -0.3253 | 0.550                    | -0.3799 | 0.550                      | -0.3510 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2111 | 0.005 | 0.2511  | 0.005 | 0.1709  |
| 0.010 | 0.0099 | 0.010 | -0.0169 | 0.010 | -0.1472 |

Flight 31 Test point 3

Sweep, deg = 34.5 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 169.5 Rnpu = 1711000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.6808  | 0.000                    | 0.7179  | 0.000                      | 0.7180  |
| 0.005                       | -0.1428 | 0.005                    | -0.1373 | 0.005                      | 0.1332  |
| 0.010                       | -0.3544 | 0.010                    | -0.3275 | 0.010                      | -0.1323 |
| 0.020                       | -0.5169 | 0.020                    | -0.5025 | 0.020                      | -0.3856 |
| 0.040                       | -0.5948 | 0.040                    | -0.5727 | 0.040                      | -0.4741 |
| 0.060                       | -0.6010 | 0.060                    | -0.5424 | 0.060                      | -0.4982 |
| 0.080                       | -0.6000 | 0.080                    | -0.5523 | 0.080                      | -0.4843 |
| 0.100                       | -0.5824 | 0.100                    | -0.5373 | 0.100                      | -0.4826 |
| 0.125                       | -0.5220 | 0.125                    | -0.5346 | 0.125                      | -0.4776 |
| 0.150                       | -0.5761 | 0.150                    | -0.5494 | 0.150                      | -0.4801 |
| 0.175                       | -0.5604 | 0.175                    | -0.5493 | 0.175                      | -0.4966 |
| 0.200                       | -0.6014 | 0.200                    | -0.5591 | 0.200                      | -0.4750 |
| 0.250                       | -0.5840 | 0.250                    | -0.5886 | 0.250                      | -0.4971 |
| 0.300                       | -0.5563 | 0.300                    | -0.5479 | 0.300                      | -0.4663 |
| 0.350                       | -0.5167 | 0.350                    | -0.5023 | 0.350                      | -0.4643 |
| 0.400                       | -0.4759 | 0.400                    | -0.5016 | 0.400                      | -0.4490 |
| 0.450                       | -0.4221 | 0.450                    | -0.4371 | 0.450                      | -0.4271 |
| 0.500                       | -0.4228 | 0.500                    | -0.4339 | 0.500                      | -0.3957 |
| 0.550                       | -0.3544 | 0.550                    | -0.4124 | 0.550                      | -0.3802 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3848 | 0.005 | 0.4463 | 0.005 | 0.3862 |
| 0.010 | 0.1964 | 0.010 | 0.2126 | 0.010 | 0.1111 |

Fight 31 Test point 4

Sweep, deg = 29.9 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 4.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 171.4 Rnpu = 1718000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.5124  | 0.000                    | 0.5262  | 0.000                      | 0.5624  |
| 0.005                       | -0.8890 | 0.005                    | -0.8743 | 0.005                      | -0.4946 |
| 0.010                       | -1.1409 | 0.010                    | -1.1595 | 0.010                      | -0.8733 |
| 0.020                       | -1.3449 | 0.020                    | -1.3215 | 0.020                      | -1.2544 |
| 0.040                       | -1.4578 | 0.040                    | -1.4402 | 0.040                      | -1.3355 |
| 0.060                       | -1.4952 | 0.060                    | -1.4543 | 0.060                      | -1.2599 |
| 0.080                       | -1.4257 | 0.080                    | -1.4007 | 0.080                      | -1.1762 |
| 0.100                       | -1.3163 | 0.100                    | -1.3216 | 0.100                      | -0.9668 |
| 0.125                       | -0.7566 | 0.125                    | -0.7588 | 0.125                      | -0.8777 |
| 0.150                       | -0.9179 | 0.150                    | -0.8797 | 0.150                      | -0.8497 |
| 0.175                       | -0.8564 | 0.175                    | -0.8892 | 0.175                      | -0.8513 |
| 0.200                       | -0.9258 | 0.200                    | -0.8996 | 0.200                      | -0.8043 |
| 0.250                       | -0.8616 | 0.250                    | -0.9505 | 0.250                      | -0.7711 |
| 0.300                       | -0.7975 | 0.300                    | -0.8187 | 0.300                      | -0.7158 |
| 0.350                       | -0.7119 | 0.350                    | -0.7187 | 0.350                      | -0.6683 |
| 0.400                       | -0.6353 | 0.400                    | -0.6861 | 0.400                      | -0.6177 |
| 0.450                       | -0.5490 | 0.450                    | -0.5897 | 0.450                      | -0.5638 |
| 0.500                       | -0.5227 | 0.500                    | -0.5528 | 0.500                      | -0.4942 |
| 0.550                       | -0.4335 | 0.550                    | -0.5031 | 0.550                      | -0.4513 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.7138 | 0.005 | 0.7757 | 0.005 | 0.7493 |
| 0.010         | 0.6616 | 0.010 | 0.6237 | 0.010 | 0.5720 |

Fight 31 Test point 5

Sweep, deg = 30.0 Mach = 0.71 hp, ft = 35000. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 175.0 Rnpu = 1738000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7823  | 0.000                    | 0.8428  | 0.000                      | 0.8254  |
| 0.005                       | 0.1397  | 0.005                    | 0.1850  | 0.005                      | 0.4147  |
| 0.010                       | -0.0885 | 0.010                    | -0.0323 | 0.010                      | 0.1609  |
| 0.020                       | -0.2929 | 0.020                    | -0.2511 | 0.020                      | -0.1166 |
| 0.040                       | -0.4379 | 0.040                    | -0.3873 | 0.040                      | -0.2740 |
| 0.060                       | -0.4792 | 0.060                    | -0.4152 | 0.060                      | -0.3388 |
| 0.080                       | -0.5066 | 0.080                    | -0.4389 | 0.080                      | -0.3575 |
| 0.100                       | -0.4992 | 0.100                    | -0.4494 | 0.100                      | -0.3777 |
| 0.125                       | -0.4727 | 0.125                    | -0.4540 | 0.125                      | -0.3926 |
| 0.150                       | -0.5305 | 0.150                    | -0.4838 | 0.150                      | -0.4176 |
| 0.175                       | -0.5303 | 0.175                    | -0.5055 | 0.175                      | -0.4374 |
| 0.200                       | -0.5754 | 0.200                    | -0.5177 | 0.200                      | -0.4276 |
| 0.250                       | -0.5751 | 0.250                    | -0.5699 | 0.250                      | -0.4712 |
| 0.300                       | -0.5481 | 0.300                    | -0.5507 | 0.300                      | -0.4655 |
| 0.350                       | -0.5316 | 0.350                    | -0.5096 | 0.350                      | -0.4658 |
| 0.400                       | -0.4860 | 0.400                    | -0.5186 | 0.400                      | -0.4551 |
| 0.450                       | -0.4298 | 0.450                    | -0.4573 | 0.450                      | -0.4391 |
| 0.500                       | -0.4334 | 0.500                    | -0.4569 | 0.500                      | -0.4023 |
| 0.550                       | -0.3715 | 0.550                    | -0.4354 | 0.550                      | -0.3927 |

| Lower surface |        |       |         |       |         |
|---------------|--------|-------|---------|-------|---------|
| 0.005         | 0.2408 | 0.005 | 0.2767  | 0.005 | 0.1883  |
| 0.010         | 0.0131 | 0.010 | -0.0155 | 0.010 | -0.1659 |

Fight 31 Test point 6

Sweep, deg = 29.7 Mach = 0.71 hp, ft = 35200. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 172.6 Rnpu = 1705000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7661  | 0.000                    | 0.8129  | 0.000                      | 0.8120  |
| 0.005                       | -0.0897 | 0.005                    | -0.0528 | 0.005                      | 0.2288  |
| 0.010                       | -0.3181 | 0.010                    | -0.2741 | 0.010                      | -0.0580 |
| 0.020                       | -0.5196 | 0.020                    | -0.4853 | 0.020                      | -0.3422 |
| 0.040                       | -0.6287 | 0.040                    | -0.5875 | 0.040                      | -0.4700 |
| 0.060                       | -0.6430 | 0.060                    | -0.5841 | 0.060                      | -0.5121 |
| 0.080                       | -0.6436 | 0.080                    | -0.5824 | 0.080                      | -0.5049 |
| 0.100                       | -0.6294 | 0.100                    | -0.5857 | 0.100                      | -0.5137 |
| 0.125                       | -0.5665 | 0.125                    | -0.5719 | 0.125                      | -0.5158 |
| 0.150                       | -0.6332 | 0.150                    | -0.5952 | 0.150                      | -0.5204 |
| 0.175                       | -0.6185 | 0.175                    | -0.6012 | 0.175                      | -0.5371 |
| 0.200                       | -0.6585 | 0.200                    | -0.6107 | 0.200                      | -0.5219 |
| 0.250                       | -0.6472 | 0.250                    | -0.6551 | 0.250                      | -0.5408 |
| 0.300                       | -0.6184 | 0.300                    | -0.6216 | 0.300                      | -0.5158 |
| 0.350                       | -0.5797 | 0.350                    | -0.5653 | 0.350                      | -0.5222 |
| 0.400                       | -0.5232 | 0.400                    | -0.5628 | 0.400                      | -0.4955 |
| 0.450                       | -0.4639 | 0.450                    | -0.4997 | 0.450                      | -0.4684 |
| 0.500                       | -0.4560 | 0.500                    | -0.4886 | 0.500                      | -0.4231 |
| 0.550                       | -0.3917 | 0.550                    | -0.4561 | 0.550                      | -0.4134 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.4135 | 0.005 | 0.4494 | 0.005 | 0.3903 |
| 0.010         | 0.2069 | 0.010 | 0.1981 | 0.010 | 0.0775 |



Flight 31 Test point 7

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 4.1  
 Angle of sideslip, deg = 0.0 QBAR, lh/ft<sup>2</sup> = 172.8 Rnpu = 1720000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.6685  | 0.000                    | 0.6986  | 0.000                      | 0.7252  |
| 0.005                       | -0.6966 | 0.005                    | -0.6584 | 0.005                      | -0.2758 |
| 0.010                       | -0.9737 | 0.010                    | -0.9589 | 0.010                      | -0.6607 |
| 0.020                       | -1.2078 | 0.020                    | -1.1555 | 0.020                      | -1.0976 |
| 0.040                       | -1.3589 | 0.040                    | -1.3311 | 0.040                      | -1.1357 |
| 0.060                       | -1.4117 | 0.060                    | -1.3508 | 0.060                      | -1.1644 |
| 0.080                       | -1.3628 | 0.080                    | -1.3187 | 0.080                      | -1.2266 |
| 0.100                       | -1.3318 | 0.100                    | -1.2927 | 0.100                      | -1.1307 |
| 0.125                       | -1.0878 | 0.125                    | -1.2146 | 0.125                      | -0.7874 |
| 0.150                       | -1.2246 | 0.150                    | -1.0694 | 0.150                      | -0.8306 |
| 0.175                       | -0.8006 | 0.175                    | -0.7971 | 0.175                      | -0.9008 |
| 0.200                       | -0.8837 | 0.200                    | -0.8844 | 0.200                      | -0.8481 |
| 0.250                       | -0.8982 | 0.250                    | -1.0493 | 0.250                      | -0.8311 |
| 0.300                       | -0.8549 | 0.300                    | -0.9549 | 0.300                      | -0.7599 |
| 0.350                       | -0.7627 | 0.350                    | -0.7672 | 0.350                      | -0.7252 |
| 0.400                       | -0.6738 | 0.400                    | -0.7410 | 0.400                      | -0.6616 |
| 0.450                       | -0.5790 | 0.450                    | -0.6410 | 0.450                      | -0.6108 |
| 0.500                       | -0.5505 | 0.500                    | -0.6020 | 0.500                      | -0.5334 |
| 0.550                       | -0.4547 | 0.550                    | -0.5409 | 0.550                      | -0.4843 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.7533 | 0.005 | 0.7975 | 0.005 | 0.7688 |
| 0.010 | 0.6018 | 0.010 | 0.6032 | 0.010 | 0.5339 |

Fight 31 Test point 8

Sweep, deg = 24.8 Mach = 0.70 hp, ft = 35000. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 171.5 Rnpu = 1699000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8762  | 0.000                    | 0.9302  | 0.000                      | 0.9083  |
| 0.005                       | 0.1491  | 0.005                    | 0.2028  | 0.005                      | 0.4578  |
| 0.010                       | -0.1019 | 0.010                    | -0.0226 | 0.010                      | 0.1909  |
| 0.020                       | -0.3233 | 0.020                    | -0.2695 | 0.020                      | -0.1229 |
| 0.040                       | -0.4947 | 0.040                    | -0.4246 | 0.040                      | -0.2942 |
| 0.060                       | -0.5391 | 0.060                    | -0.4509 | 0.060                      | -0.3703 |
| 0.080                       | -0.5656 | 0.080                    | -0.4821 | 0.080                      | -0.3895 |
| 0.100                       | -0.5658 | 0.100                    | -0.5006 | 0.100                      | -0.4144 |
| 0.125                       | -0.5286 | 0.125                    | -0.4951 | 0.125                      | -0.4298 |
| 0.150                       | -0.5985 | 0.150                    | -0.5341 | 0.150                      | -0.4611 |
| 0.175                       | -0.5946 | 0.175                    | -0.5594 | 0.175                      | -0.4740 |
| 0.200                       | -0.6466 | 0.200                    | -0.5759 | 0.200                      | -0.4757 |
| 0.250                       | -0.6372 | 0.250                    | -0.6398 | 0.250                      | -0.5121 |
| 0.300                       | -0.6178 | 0.300                    | -0.6178 | 0.300                      | -0.5092 |
| 0.350                       | -0.5784 | 0.350                    | -0.5683 | 0.350                      | -0.5194 |
| 0.400                       | -0.5338 | 0.400                    | -0.5765 | 0.400                      | -0.5000 |
| 0.450                       | -0.4705 | 0.450                    | -0.5104 | 0.450                      | -0.4876 |
| 0.500                       | -0.4674 | 0.500                    | -0.5034 | 0.500                      | -0.4422 |
| 0.550                       | -0.4020 | 0.550                    | -0.4705 | 0.550                      | -0.4206 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3030 | 0.005 | 0.3153 | 0.005 | 0.2178  |
| 0.010 | 0.0559 | 0.010 | 0.0032 | 0.010 | -0.1674 |

Fight 31 Test point 9

Sweep, deg = 24.6 Mach = 0.70 hp, ft = 35100. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 169.0 Rnpu = 1679000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8634  | 0.000                    | 0.9180  | 0.000                      | 0.9033  |
| 0.005                       | -0.0199 | 0.005                    | 0.0324  | 0.005                      | 0.3328  |
| 0.010                       | -0.2757 | 0.010                    | -0.2132 | 0.010                      | 0.0262  |
| 0.020                       | -0.5034 | 0.020                    | -0.4450 | 0.020                      | -0.2956 |
| 0.040                       | -0.6437 | 0.040                    | -0.5780 | 0.040                      | -0.4397 |
| 0.060                       | -0.6728 | 0.060                    | -0.5810 | 0.060                      | -0.5047 |
| 0.080                       | -0.6816 | 0.080                    | -0.5996 | 0.080                      | -0.5035 |
| 0.100                       | -0.6671 | 0.100                    | -0.5990 | 0.100                      | -0.5125 |
| 0.125                       | -0.6077 | 0.125                    | -0.5987 | 0.125                      | -0.5201 |
| 0.150                       | -0.6859 | 0.150                    | -0.6223 | 0.150                      | -0.5422 |
| 0.175                       | -0.6637 | 0.175                    | -0.6439 | 0.175                      | -0.5531 |
| 0.200                       | -0.7196 | 0.200                    | -0.6454 | 0.200                      | -0.5447 |
| 0.250                       | -0.7001 | 0.250                    | -0.7109 | 0.250                      | -0.5767 |
| 0.300                       | -0.6648 | 0.300                    | -0.6690 | 0.300                      | -0.5546 |
| 0.350                       | -0.6250 | 0.350                    | -0.6132 | 0.350                      | -0.5560 |
| 0.400                       | -0.5659 | 0.400                    | -0.6136 | 0.400                      | -0.5335 |
| 0.450                       | -0.4972 | 0.450                    | -0.5336 | 0.450                      | -0.5058 |
| 0.500                       | -0.4906 | 0.500                    | -0.5281 | 0.500                      | -0.4633 |
| 0.550                       | -0.4179 | 0.550                    | -0.4908 | 0.550                      | -0.4332 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4340 | 0.005 | 0.4623 | 0.005 | 0.3827 |
| 0.010 | 0.2035 | 0.010 | 0.1757 | 0.010 | 0.0256 |

Fight 31 Test point 10

Sweep, deg = 20.1 Mach = 0.70 hp, ft = 35000. Angle of attack, deg = 3.4  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 172.6 Rnpu = 1632000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8139  | 0.000                    | 0.8609  | 0.000                      | 0.8809  |
| 0.005                       | -0.4673 | 0.005                    | -0.4141 | 0.005                      | -0.0324 |
| 0.010                       | -0.7597 | 0.010                    | -0.7066 | 0.010                      | -0.4073 |
| 0.020                       | -1.0050 | 0.020                    | -0.9406 | 0.020                      | -0.8162 |
| 0.040                       | -1.1924 | 0.040                    | -1.1447 | 0.040                      | -0.9220 |
| 0.060                       | -1.2580 | 0.060                    | -1.0918 | 0.060                      | -1.0256 |
| 0.080                       | -1.2101 | 0.080                    | -1.0955 | 0.080                      | -0.9246 |
| 0.100                       | -1.1814 | 0.100                    | -1.0664 | 0.100                      | -0.8762 |
| 0.125                       | -0.9845 | 0.125                    | -0.9704 | 0.125                      | -0.8378 |
| 0.150                       | -1.0770 | 0.150                    | -0.7900 | 0.150                      | -0.8402 |
| 0.175                       | -0.9296 | 0.175                    | -0.9480 | 0.175                      | -0.8385 |
| 0.200                       | -0.8929 | 0.200                    | -0.9554 | 0.200                      | -0.8228 |
| 0.250                       | -1.0057 | 0.250                    | -1.0742 | 0.250                      | -0.8091 |
| 0.300                       | -0.8550 | 0.300                    | -0.9134 | 0.300                      | -0.7521 |
| 0.350                       | -0.7684 | 0.350                    | -0.7790 | 0.350                      | -0.7386 |
| 0.400                       | -0.6801 | 0.400                    | -0.7570 | 0.400                      | -0.6795 |
| 0.450                       | -0.5883 | 0.450                    | -0.6491 | 0.450                      | -0.6261 |
| 0.500                       | -0.5541 | 0.500                    | -0.6167 | 0.500                      | -0.5471 |
| 0.550                       | -0.4559 | 0.550                    | -0.5608 | 0.550                      | -0.4873 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.7313 | 0.005 | 0.7769 | 0.005 | 0.7235 |
| 0.010         | 0.5456 | 0.010 | 0.5342 | 0.010 | 0.4259 |

Fight 31 Test point 11

Sweep, deg = 20.1 Mach = 0.70 hp, ft = 35100. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 171.1 Rnpu = 1684000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9445  | 0.000                    | 1.0025  | 0.000                      | 0.9770  |
| 0.005                       | 0.1362  | 0.005                    | 0.1961  | 0.005                      | 0.4770  |
| 0.010                       | -0.1346 | 0.010                    | -0.0518 | 0.010                      | 0.1813  |
| 0.020                       | -0.3781 | 0.020                    | -0.3114 | 0.020                      | -0.1603 |
| 0.040                       | -0.5625 | 0.040                    | -0.4718 | 0.040                      | -0.3332 |
| 0.060                       | -0.6052 | 0.060                    | -0.5101 | 0.060                      | -0.4214 |
| 0.080                       | -0.6402 | 0.080                    | -0.5423 | 0.080                      | -0.4370 |
| 0.100                       | -0.6303 | 0.100                    | -0.5534 | 0.100                      | -0.4595 |
| 0.125                       | -0.5910 | 0.125                    | -0.5542 | 0.125                      | -0.4751 |
| 0.150                       | -0.6748 | 0.150                    | -0.5964 | 0.150                      | -0.5101 |
| 0.175                       | -0.6643 | 0.175                    | -0.6328 | 0.175                      | -0.5252 |
| 0.200                       | -0.7200 | 0.200                    | -0.6403 | 0.200                      | -0.5245 |
| 0.250                       | -0.7167 | 0.250                    | -0.7122 | 0.250                      | -0.5780 |
| 0.300                       | -0.6868 | 0.300                    | -0.6849 | 0.300                      | -0.5729 |
| 0.350                       | -0.6381 | 0.350                    | -0.6294 | 0.350                      | -0.5743 |
| 0.400                       | -0.5803 | 0.400                    | -0.6259 | 0.400                      | -0.5513 |
| 0.450                       | -0.5091 | 0.450                    | -0.5532 | 0.450                      | -0.5231 |
| 0.500                       | -0.4968 | 0.500                    | -0.5441 | 0.500                      | -0.4734 |
| 0.550                       | -0.4172 | 0.550                    | -0.5037 | 0.550                      | -0.4437 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3865 | 0.005 | 0.4019 | 0.005 | 0.3019  |
| 0.010 | 0.1186 | 0.010 | 0.0716 | 0.010 | -0.1023 |

Fight 31 Test point 12

Sweep, deg = 20.1 Mach = 0.70 hp, ft = 34800. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 173.9 Rnpu = 1708000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9272  | 0.000                    | 0.9732  | 0.000                      | 0.9732  |
| 0.005                       | -0.0403 | 0.005                    | 0.0298  | 0.005                      | 0.3365  |
| 0.010                       | -0.3179 | 0.010                    | -0.2309 | 0.010                      | 0.0217  |
| 0.020                       | -0.5642 | 0.020                    | -0.4885 | 0.020                      | -0.3261 |
| 0.040                       | -0.7322 | 0.040                    | -0.6390 | 0.040                      | -0.4865 |
| 0.060                       | -0.7642 | 0.060                    | -0.6599 | 0.060                      | -0.5501 |
| 0.080                       | -0.7771 | 0.080                    | -0.6736 | 0.080                      | -0.5589 |
| 0.100                       | -0.7620 | 0.100                    | -0.6813 | 0.100                      | -0.5761 |
| 0.125                       | -0.6849 | 0.125                    | -0.6596 | 0.125                      | -0.5778 |
| 0.150                       | -0.7759 | 0.150                    | -0.6964 | 0.150                      | -0.6052 |
| 0.175                       | -0.7484 | 0.175                    | -0.7274 | 0.175                      | -0.6160 |
| 0.200                       | -0.8144 | 0.200                    | -0.7381 | 0.200                      | -0.6147 |
| 0.250                       | -0.7840 | 0.250                    | -0.7986 | 0.250                      | -0.6409 |
| 0.300                       | -0.7411 | 0.300                    | -0.7606 | 0.300                      | -0.6357 |
| 0.350                       | -0.6809 | 0.350                    | -0.6975 | 0.350                      | -0.6346 |
| 0.400                       | -0.6146 | 0.400                    | -0.6829 | 0.400                      | -0.5949 |
| 0.450                       | -0.5349 | 0.450                    | -0.5901 | 0.450                      | -0.5609 |
| 0.500                       | -0.5189 | 0.500                    | -0.5676 | 0.500                      | -0.5070 |
| 0.550                       | -0.4382 | 0.550                    | -0.5247 | 0.550                      | -0.4638 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.5093 | 0.005 | 0.5339 | 0.005 | 0.4465 |
| 0.010         | 0.2719 | 0.010 | 0.2303 | 0.010 | 0.0737 |

Fight 31 Test point 13

Sweep, deg = 20.1 Mach = 0.76 hp, ft = 34900. Angle of attack, deg = 2.8  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 199.4 Rnpu = 1841000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9039  | 0.000                    | 0.9407  | 0.000                      | 0.9424  |
| 0.005                       | -0.1696 | 0.005                    | -0.1244 | 0.005                      | 0.1806  |
| 0.010                       | -0.4512 | 0.010                    | -0.3917 | 0.010                      | -0.1567 |
| 0.020                       | -0.7017 | 0.020                    | -0.6559 | 0.020                      | -0.5443 |
| 0.040                       | -0.8892 | 0.040                    | -0.8384 | 0.040                      | -0.6951 |
| 0.060                       | -0.9838 | 0.060                    | -0.8657 | 0.060                      | -0.8306 |
| 0.080                       | -0.9888 | 0.080                    | -0.9117 | 0.080                      | -0.8562 |
| 0.100                       | -0.9938 | 0.100                    | -0.9240 | 0.100                      | -0.8297 |
| 0.125                       | -0.8676 | 0.125                    | -0.9248 | 0.125                      | -0.8075 |
| 0.150                       | -1.0100 | 0.150                    | -0.9279 | 0.150                      | -0.8220 |
| 0.175                       | -0.9746 | 0.175                    | -0.9506 | 0.175                      | -0.8249 |
| 0.200                       | -1.0634 | 0.200                    | -0.9552 | 0.200                      | -0.8368 |
| 0.250                       | -1.1219 | 0.250                    | -1.0405 | 0.250                      | -0.9202 |
| 0.300                       | -1.1852 | 0.300                    | -1.0732 | 0.300                      | -0.9568 |
| 0.350                       | -1.1603 | 0.350                    | -1.1018 | 0.350                      | -1.0136 |
| 0.400                       | -1.1360 | 0.400                    | -1.2112 | 0.400                      | -1.0279 |
| 0.450                       | -0.5204 | 0.450                    | -1.1836 | 0.450                      | -1.0453 |
| 0.500                       | -0.4579 | 0.500                    | -0.5965 | 0.500                      | -0.4392 |
| 0.550                       | -0.4201 | 0.550                    | -0.4557 | 0.550                      | -0.4341 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.6552 | 0.005 | 0.6742 | 0.005 | 0.6206 |
| 0.010 | 0.4405 | 0.010 | 0.4065 | 0.010 | 0.3015 |

Fight 31 Test point 14

Sweep, deg = 20.1 Mach = 0.76 hp, ft = 34900. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 199.2 Rnpu = 1852000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9582  | 0.000                    | 1.0089  | 0.000                      | 0.9893  |
| 0.005                       | 0.2705  | 0.005                    | 0.3264  | 0.005                      | 0.5678  |
| 0.010                       | 0.0004  | 0.010                    | 0.0788  | 0.010                      | 0.2851  |
| 0.020                       | -0.2521 | 0.020                    | -0.1875 | 0.020                      | -0.0506 |
| 0.040                       | -0.4616 | 0.040                    | -0.3778 | 0.040                      | -0.2535 |
| 0.060                       | -0.5334 | 0.060                    | -0.4436 | 0.060                      | -0.3665 |
| 0.080                       | -0.5808 | 0.080                    | -0.4901 | 0.080                      | -0.4016 |
| 0.100                       | -0.6083 | 0.100                    | -0.5198 | 0.100                      | -0.4334 |
| 0.125                       | -0.5714 | 0.125                    | -0.5287 | 0.125                      | -0.4600 |
| 0.150                       | -0.6735 | 0.150                    | -0.5839 | 0.150                      | -0.5090 |
| 0.175                       | -0.6870 | 0.175                    | -0.6411 | 0.175                      | -0.5385 |
| 0.200                       | -0.7479 | 0.200                    | -0.6686 | 0.200                      | -0.5602 |
| 0.250                       | -0.8074 | 0.250                    | -0.7906 | 0.250                      | -0.6210 |
| 0.300                       | -0.7693 | 0.300                    | -0.7999 | 0.300                      | -0.6434 |
| 0.350                       | -0.7379 | 0.350                    | -0.8141 | 0.350                      | -0.6612 |
| 0.400                       | -0.6306 | 0.400                    | -0.6757 | 0.400                      | -0.6004 |
| 0.450                       | -0.5306 | 0.450                    | -0.5774 | 0.450                      | -0.5686 |
| 0.500                       | -0.5122 | 0.500                    | -0.5718 | 0.500                      | -0.5001 |
| 0.550                       | -0.4324 | 0.550                    | -0.5247 | 0.550                      | -0.4451 |

| Lower surface |        |       |         |       |         |
|---------------|--------|-------|---------|-------|---------|
| 0.005         | 0.3245 | 0.005 | 0.3242  | 0.005 | 0.2438  |
| 0.010         | 0.0577 | 0.010 | -0.0172 | 0.010 | -0.1744 |



Fight 31 Test point 15

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 35000. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = 0.4 QBAR, lb/ft<sup>2</sup> = 198.1 Rnpu = 1848000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9530  | 0.000                    | 0.9931  | 0.000                      | 0.9814  |
| 0.005                       | 0.1021  | 0.005                    | 0.1595  | 0.005                      | 0.4200  |
| 0.010                       | -0.1704 | 0.010                    | -0.1016 | 0.010                      | 0.1149  |
| 0.020                       | -0.4290 | 0.020                    | -0.3736 | 0.020                      | -0.2404 |
| 0.040                       | -0.6398 | 0.040                    | -0.5527 | 0.040                      | -0.4216 |
| 0.060                       | -0.6929 | 0.060                    | -0.6010 | 0.060                      | -0.5257 |
| 0.080                       | -0.7030 | 0.080                    | -0.6385 | 0.080                      | -0.5483 |
| 0.100                       | -0.7529 | 0.100                    | -0.6527 | 0.100                      | -0.5718 |
| 0.125                       | -0.6948 | 0.125                    | -0.6365 | 0.125                      | -0.5822 |
| 0.150                       | -0.7773 | 0.150                    | -0.6761 | 0.150                      | -0.6251 |
| 0.175                       | -0.7847 | 0.175                    | -0.7639 | 0.175                      | -0.6578 |
| 0.200                       | -0.8772 | 0.200                    | -0.7955 | 0.200                      | -0.6924 |
| 0.250                       | -0.9226 | 0.250                    | -0.8989 | 0.250                      | -0.7347 |
| 0.300                       | -0.9738 | 0.300                    | -0.9168 | 0.300                      | -0.7593 |
| 0.350                       | -0.7741 | 0.350                    | -0.9626 | 0.350                      | -0.8077 |
| 0.400                       | -0.7359 | 0.400                    | -1.0022 | 0.400                      | -0.6289 |
| 0.450                       | -0.5405 | 0.450                    | -0.5325 | 0.450                      | -0.5898 |
| 0.500                       | -0.5237 | 0.500                    | -0.5506 | 0.500                      | -0.5221 |
| 0.550                       | -0.4470 | 0.550                    | -0.5172 | 0.550                      | -0.4575 |

| Lower surface               |        |                          |        |                            |        |
|-----------------------------|--------|--------------------------|--------|----------------------------|--------|
| BL 200.8<br>Inboard station |        | BL 260<br>Middle station |        | BL 320<br>Outboard station |        |
| x/c                         | Cp     | x/c                      | Cp     | x/c                        | Cp     |
| 0.005                       | 0.4609 | 0.005                    | 0.4779 | 0.005                      | 0.4031 |
| 0.010                       | 0.2129 | 0.010                    | 0.1692 | 0.010                      | 0.0284 |

Fight 31 Test point 16

Sweep, deg = 24.6 Mach = 0.75 hp, ft = 34900. Angle of attack, deg = 2.9  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 197.5 Rnpu = 1854000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8145  | 0.000                    | 0.8529  | 0.000                      | 0.8542  |
| 0.005                       | -0.2695 | 0.005                    | -0.2332 | 0.005                      | 0.0719  |
| 0.010                       | -0.5394 | 0.010                    | -0.5001 | 0.010                      | -0.2721 |
| 0.020                       | -0.7712 | 0.020                    | -0.7302 | 0.020                      | -0.6484 |
| 0.040                       | -0.9521 | 0.040                    | -0.9361 | 0.040                      | -0.7727 |
| 0.060                       | -1.0241 | 0.060                    | -0.9093 | 0.060                      | -0.8888 |
| 0.080                       | -1.0116 | 0.080                    | -0.9511 | 0.080                      | -0.9208 |
| 0.100                       | -1.0024 | 0.100                    | -0.9646 | 0.100                      | -0.8686 |
| 0.125                       | -0.8753 | 0.125                    | -0.9497 | 0.125                      | -0.8212 |
| 0.150                       | -0.9892 | 0.150                    | -0.9447 | 0.150                      | -0.7961 |
| 0.175                       | -0.9481 | 0.175                    | -0.9521 | 0.175                      | -0.7982 |
| 0.200                       | -1.0299 | 0.200                    | -0.9353 | 0.200                      | -0.8014 |
| 0.250                       | -1.0781 | 0.250                    | -1.0110 | 0.250                      | -0.9057 |
| 0.300                       | -1.0602 | 0.300                    | -1.0517 | 0.300                      | -0.9228 |
| 0.350                       | -0.7766 | 0.350                    | -1.0669 | 0.350                      | -0.9580 |
| 0.400                       | -0.6794 | 0.400                    | -1.0732 | 0.400                      | -0.5332 |
| 0.450                       | -0.5464 | 0.450                    | -0.5242 | 0.450                      | -0.5564 |
| 0.500                       | -0.5259 | 0.500                    | -0.5279 | 0.500                      | -0.5066 |
| 0.550                       | -0.4432 | 0.550                    | -0.5059 | 0.550                      | -0.4592 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.6361 | 0.005 | 0.6707 | 0.005 | 0.6278 |
| 0.010 | 0.4341 | 0.010 | 0.4286 | 0.010 | 0.3351 |

Fight 31 Test point 17

Sweep, deg = 24.5 Mach = 0.76 hp, ft = 34900. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.4 QBAR, lb/ft<sup>2</sup> = 199.6 R<sub>npu</sub> = 1866000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8894  | 0.000                    | 0.9432  | 0.000                      | 0.9266  |
| 0.005                       | 0.1818  | 0.005                    | 0.2297  | 0.005                      | 0.4666  |
| 0.010                       | -0.0725 | 0.010                    | -0.0086 | 0.010                      | 0.1990  |
| 0.020                       | -0.3151 | 0.020                    | -0.2669 | 0.020                      | -0.1364 |
| 0.040                       | -0.5019 | 0.040                    | -0.4403 | 0.040                      | -0.3196 |
| 0.060                       | -0.5602 | 0.060                    | -0.4831 | 0.060                      | -0.4080 |
| 0.080                       | -0.5986 | 0.080                    | -0.5263 | 0.080                      | -0.4409 |
| 0.100                       | -0.6128 | 0.100                    | -0.5431 | 0.100                      | -0.4635 |
| 0.125                       | -0.5775 | 0.125                    | -0.5430 | 0.125                      | -0.4840 |
| 0.150                       | -0.6652 | 0.150                    | -0.5986 | 0.150                      | -0.5238 |
| 0.175                       | -0.6489 | 0.175                    | -0.6404 | 0.175                      | -0.5534 |
| 0.200                       | -0.7344 | 0.200                    | -0.6621 | 0.200                      | -0.5636 |
| 0.250                       | -0.7600 | 0.250                    | -0.7348 | 0.250                      | -0.6060 |
| 0.300                       | -0.6983 | 0.300                    | -0.8165 | 0.300                      | -0.6068 |
| 0.350                       | -0.7119 | 0.350                    | -0.6770 | 0.350                      | -0.6117 |
| 0.400                       | -0.6093 | 0.400                    | -0.6579 | 0.400                      | -0.5757 |
| 0.450                       | -0.5216 | 0.450                    | -0.5750 | 0.450                      | -0.5390 |
| 0.500                       | -0.5060 | 0.500                    | -0.5511 | 0.500                      | -0.4754 |
| 0.550                       | -0.4323 | 0.550                    | -0.5088 | 0.550                      | -0.4371 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3278 | 0.005 | 0.3510 | 0.005 | 0.2766  |
| 0.010 | 0.0724 | 0.010 | 0.0333 | 0.010 | -0.1130 |

Fight 31 Test point 18

Sweep, deg = 24.5 Mach = 0.76 hp, ft = 35000. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 199.9 Rnpu = 1872000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8808  | 0.000                    | 0.9311  | 0.000                      | 0.9191  |
| 0.005                       | 0.0600  | 0.005                    | 0.1018  | 0.005                      | 0.3645  |
| 0.010                       | -0.2017 | 0.010                    | -0.1448 | 0.010                      | 0.0691  |
| 0.020                       | -0.4398 | 0.020                    | -0.3992 | 0.020                      | -0.2681 |
| 0.040                       | -0.6306 | 0.040                    | -0.5621 | 0.040                      | -0.4377 |
| 0.060                       | -0.6851 | 0.060                    | -0.5989 | 0.060                      | -0.5288 |
| 0.080                       | -0.6998 | 0.080                    | -0.6340 | 0.080                      | -0.5492 |
| 0.100                       | -0.7062 | 0.100                    | -0.6501 | 0.100                      | -0.5632 |
| 0.125                       | -0.6351 | 0.125                    | -0.6264 | 0.125                      | -0.5799 |
| 0.150                       | -0.7361 | 0.150                    | -0.6615 | 0.150                      | -0.6148 |
| 0.175                       | -0.7695 | 0.175                    | -0.7480 | 0.175                      | -0.6452 |
| 0.200                       | -0.8263 | 0.200                    | -0.7516 | 0.200                      | -0.6358 |
| 0.250                       | -0.8244 | 0.250                    | -0.8513 | 0.250                      | -0.7056 |
| 0.300                       | -0.8044 | 0.300                    | -0.8404 | 0.300                      | -0.6769 |
| 0.350                       | -0.7576 | 0.350                    | -0.8807 | 0.350                      | -0.6614 |
| 0.400                       | -0.6490 | 0.400                    | -0.6112 | 0.400                      | -0.6040 |
| 0.450                       | -0.5330 | 0.450                    | -0.5750 | 0.450                      | -0.5682 |
| 0.500                       | -0.5166 | 0.500                    | -0.5577 | 0.500                      | -0.4965 |
| 0.550                       | -0.4358 | 0.550                    | -0.5154 | 0.550                      | -0.4455 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.4405 | 0.005 | 0.4538 | 0.005 | 0.3843 |
| 0.010         | 0.1970 | 0.010 | 0.1611 | 0.010 | 0.0350 |

Fight 31 Test point 19

Sweep, deg = 30.0 Mach = 0.75 hp, ft = 34900. Angle of attack, deg = 3.7  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 195.9 Rnpu = 1849000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.6386  | 0.000                    | 0.6525  | 0.000                      | 0.6593  |
| 0.005                       | -0.5558 | 0.005                    | -0.5534 | 0.005                      | -0.2403 |
| 0.010                       | -0.8031 | 0.010                    | -0.8221 | 0.010                      | -0.5882 |
| 0.020                       | -1.0157 | 0.020                    | -0.9943 | 0.020                      | -0.9840 |
| 0.040                       | -1.1525 | 0.040                    | -1.1622 | 0.040                      | -1.0323 |
| 0.060                       | -1.2113 | 0.060                    | -1.1964 | 0.060                      | -1.0742 |
| 0.080                       | -1.1874 | 0.080                    | -1.1801 | 0.080                      | -1.1340 |
| 0.100                       | -1.1661 | 0.100                    | -1.1616 | 0.100                      | -1.1328 |
| 0.125                       | -0.9883 | 0.125                    | -1.1230 | 0.125                      | -1.0823 |
| 0.150                       | -1.0900 | 0.150                    | -1.1046 | 0.150                      | -1.0436 |
| 0.175                       | -1.0079 | 0.175                    | -1.0908 | 0.175                      | -0.9537 |
| 0.200                       | -1.0334 | 0.200                    | -1.0535 | 0.200                      | -0.8171 |
| 0.250                       | -0.8098 | 0.250                    | -0.9625 | 0.250                      | -0.7069 |
| 0.300                       | -0.8358 | 0.300                    | -0.7797 | 0.300                      | -0.7499 |
| 0.350                       | -0.7321 | 0.350                    | -0.7274 | 0.350                      | -0.6643 |
| 0.400                       | -0.6391 | 0.400                    | -0.6860 | 0.400                      | -0.6150 |
| 0.450                       | -0.5497 | 0.450                    | -0.5929 | 0.450                      | -0.5601 |
| 0.500                       | -0.5207 | 0.500                    | -0.5506 | 0.500                      | -0.4902 |
| 0.550                       | -0.4400 | 0.550                    | -0.5066 | 0.550                      | -0.4463 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.6616 | 0.005 | 0.7094 | 0.005 | 0.6836 |
| 0.010 | 0.5098 | 0.010 | 0.5262 | 0.010 | 0.4726 |

Fight 31 Test point 20

Sweep, deg = 30.0 Mach = 0.75 hp, ft = 35100. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 194.6 Rnpu = 1841000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7952  | 0.000                    | 0.8449  | 0.000                      | 0.8288  |
| 0.005                       | 0.1448  | 0.005                    | 0.1818  | 0.005                      | 0.4118  |
| 0.010                       | -0.0820 | 0.010                    | -0.0223 | 0.010                      | 0.1585  |
| 0.020                       | -0.2957 | 0.020                    | -0.2628 | 0.020                      | -0.1311 |
| 0.040                       | -0.4492 | 0.040                    | -0.4046 | 0.040                      | -0.2916 |
| 0.060                       | -0.4987 | 0.060                    | -0.4350 | 0.060                      | -0.3704 |
| 0.080                       | -0.5212 | 0.080                    | -0.4667 | 0.080                      | -0.3897 |
| 0.100                       | -0.5309 | 0.100                    | -0.4769 | 0.100                      | -0.4134 |
| 0.125                       | -0.4989 | 0.125                    | -0.4872 | 0.125                      | -0.4244 |
| 0.150                       | -0.5672 | 0.150                    | -0.5222 | 0.150                      | -0.4479 |
| 0.175                       | -0.5634 | 0.175                    | -0.5432 | 0.175                      | -0.4814 |
| 0.200                       | -0.6143 | 0.200                    | -0.5634 | 0.200                      | -0.4751 |
| 0.250                       | -0.6125 | 0.250                    | -0.6257 | 0.250                      | -0.5170 |
| 0.300                       | -0.6026 | 0.300                    | -0.6096 | 0.300                      | -0.5065 |
| 0.350                       | -0.5688 | 0.350                    | -0.5571 | 0.350                      | -0.5073 |
| 0.400                       | -0.5213 | 0.400                    | -0.5585 | 0.400                      | -0.4850 |
| 0.450                       | -0.4526 | 0.450                    | -0.4925 | 0.450                      | -0.4677 |
| 0.500                       | -0.4483 | 0.500                    | -0.4820 | 0.500                      | -0.4168 |
| 0.550                       | -0.3828 | 0.550                    | -0.4597 | 0.550                      | -0.4060 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.2680 | 0.005 | 0.2903 | 0.005 | 0.2133  |
| 0.010 | 0.0362 | 0.010 | 0.0057 | 0.010 | -0.1284 |

Fight 31 Test point 21

Sweep, deg = 30.0 Mach = 0.76 hp, ft = 35100. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 197.7 Rnpu = 1856000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7852  | 0.000                    | 0.8259  | 0.000                      | 0.8149  |
| 0.005                       | -0.0219 | 0.005                    | 0.0007  | 0.005                      | 0.2646  |
| 0.010                       | -0.2525 | 0.010                    | -0.2211 | 0.010                      | -0.0151 |
| 0.020                       | -0.4671 | 0.020                    | -0.4473 | 0.020                      | -0.3243 |
| 0.040                       | -0.6144 | 0.040                    | -0.5792 | 0.040                      | -0.4631 |
| 0.060                       | -0.6369 | 0.060                    | -0.5932 | 0.060                      | -0.5265 |
| 0.080                       | -0.6502 | 0.080                    | -0.6052 | 0.080                      | -0.5329 |
| 0.100                       | -0.6542 | 0.100                    | -0.6156 | 0.100                      | -0.5387 |
| 0.125                       | -0.6011 | 0.125                    | -0.5944 | 0.125                      | -0.5412 |
| 0.150                       | -0.6812 | 0.150                    | -0.6340 | 0.150                      | -0.5558 |
| 0.175                       | -0.6609 | 0.175                    | -0.6409 | 0.175                      | -0.5937 |
| 0.200                       | -0.7238 | 0.200                    | -0.6609 | 0.200                      | -0.5720 |
| 0.250                       | -0.6935 | 0.250                    | -0.7461 | 0.250                      | -0.5989 |
| 0.300                       | -0.6683 | 0.300                    | -0.6653 | 0.300                      | -0.5731 |
| 0.350                       | -0.6378 | 0.350                    | -0.6221 | 0.350                      | -0.5720 |
| 0.400                       | -0.5704 | 0.400                    | -0.6083 | 0.400                      | -0.5335 |
| 0.450                       | -0.4934 | 0.450                    | -0.5349 | 0.450                      | -0.5026 |
| 0.500                       | -0.4765 | 0.500                    | -0.5133 | 0.500                      | -0.4434 |
| 0.550                       | -0.4093 | 0.550                    | -0.4813 | 0.550                      | -0.4134 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4010 | 0.005 | 0.4343 | 0.005 | 0.3741 |
| 0.010 | 0.1910 | 0.010 | 0.1761 | 0.010 | 0.0622 |

Fight 31 Test point 22

Sweep, deg = 34.9 Mach = 0.75 hp, ft = 35000. Angle of attack, deg = 3.8  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 196.1 Rnpu = 1850000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.5241  | 0.000                    | 0.5348  | 0.000                      | 0.5474  |
| 0.005                       | -0.6510 | 0.005                    | -0.6646 | 0.005                      | -0.3497 |
| 0.010                       | -0.8673 | 0.010                    | -0.9139 | 0.010                      | -0.6832 |
| 0.020                       | -1.0578 | 0.020                    | -1.0499 | 0.020                      | -1.0446 |
| 0.040                       | -1.1739 | 0.040                    | -1.1711 | 0.040                      | -1.0712 |
| 0.060                       | -1.1967 | 0.060                    | -1.2038 | 0.060                      | -1.0482 |
| 0.080                       | -1.1432 | 0.080                    | -1.1847 | 0.080                      | -1.1289 |
| 0.100                       | -1.0070 | 0.100                    | -1.1002 | 0.100                      | -0.9667 |
| 0.125                       | -0.8029 | 0.125                    | -0.8438 | 0.125                      | -0.7820 |
| 0.150                       | -0.8234 | 0.150                    | -0.8291 | 0.150                      | -0.8191 |
| 0.175                       | -0.7937 | 0.175                    | -0.8880 | 0.175                      | -0.7990 |
| 0.200                       | -0.8624 | 0.200                    | -0.8565 | 0.200                      | -0.7413 |
| 0.250                       | -0.8604 | 0.250                    | -0.7770 | 0.250                      | -0.7343 |
| 0.300                       | -0.7326 | 0.300                    | -0.8124 | 0.300                      | -0.6513 |
| 0.350                       | -0.6857 | 0.350                    | -0.6480 | 0.350                      | -0.6086 |
| 0.400                       | -0.5950 | 0.400                    | -0.6256 | 0.400                      | -0.5600 |
| 0.450                       | -0.5101 | 0.450                    | -0.5382 | 0.450                      | -0.5094 |
| 0.500                       | -0.4868 | 0.500                    | -0.5114 | 0.500                      | -0.4386 |
| 0.550                       | -0.4007 | 0.550                    | -0.4623 | 0.550                      | -0.4034 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.6139 | 0.005 | 0.6643 | 0.005 | 0.6426 |
| 0.010 | 0.4914 | 0.010 | 0.5137 | 0.010 | 0.4689 |



Fight 31 Test point 23

Sweep, deg = 34.9 Mach = 0.76 hp, ft = 35100. Angle of attack, deg = -0.1  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 198.0 Rnpu = 1857000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7074  | 0.000                    | 0.7604  | 0.000                      | 0.7426  |
| 0.005                       | 0.2257  | 0.005                    | 0.2525  | 0.005                      | 0.4499  |
| 0.010                       | 0.0241  | 0.010                    | 0.0690  | 0.010                      | 0.2330  |
| 0.020                       | -0.1632 | 0.020                    | -0.1383 | 0.020                      | -0.0219 |
| 0.040                       | -0.3128 | 0.040                    | -0.2688 | 0.040                      | -0.1713 |
| 0.060                       | -0.3546 | 0.060                    | -0.3057 | 0.060                      | -0.2492 |
| 0.080                       | -0.3980 | 0.080                    | -0.3399 | 0.080                      | -0.2778 |
| 0.100                       | -0.4095 | 0.100                    | -0.3544 | 0.100                      | -0.2963 |
| 0.125                       | -0.3944 | 0.125                    | -0.3717 | 0.125                      | -0.3153 |
| 0.150                       | -0.4463 | 0.150                    | -0.4069 | 0.150                      | -0.3394 |
| 0.175                       | -0.4505 | 0.175                    | -0.4225 | 0.175                      | -0.3721 |
| 0.200                       | -0.4959 | 0.200                    | -0.4444 | 0.200                      | -0.3610 |
| 0.250                       | -0.5004 | 0.250                    | -0.4973 | 0.250                      | -0.4110 |
| 0.300                       | -0.4929 | 0.300                    | -0.4849 | 0.300                      | -0.4060 |
| 0.350                       | -0.4725 | 0.350                    | -0.4519 | 0.350                      | -0.4106 |
| 0.400                       | -0.4395 | 0.400                    | -0.4586 | 0.400                      | -0.4008 |
| 0.450                       | -0.3868 | 0.450                    | -0.4117 | 0.450                      | -0.3878 |
| 0.500                       | -0.3913 | 0.500                    | -0.4113 | 0.500                      | -0.3599 |
| 0.550                       | -0.3411 | 0.550                    | -0.3915 | 0.550                      | -0.3577 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.1144  | 0.005 | 0.1502  | 0.005 | 0.0674  |
| 0.010 | -0.0990 | 0.010 | -0.1307 | 0.010 | -0.2762 |

Fight 31 Test point 24

Sweep, deg = 34.8 Mach = 0.80 hp, ft = 34900. Angle of attack, deg = 3.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 221.2 Rnpu = 1965000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.6327  | 0.000                    | 0.6534  | 0.000                      | 0.6520  |
| 0.005                       | -0.3336 | 0.005                    | -0.3498 | 0.005                      | -0.0936 |
| 0.010                       | -0.5553 | 0.010                    | -0.5684 | 0.010                      | -0.3943 |
| 0.020                       | -0.7373 | 0.020                    | -0.7531 | 0.020                      | -0.7542 |
| 0.040                       | -0.8637 | 0.040                    | -0.9260 | 0.040                      | -0.8089 |
| 0.060                       | -0.9151 | 0.060                    | -0.8796 | 0.060                      | -0.8474 |
| 0.080                       | -0.9029 | 0.080                    | -0.9120 | 0.080                      | -0.9183 |
| 0.100                       | -0.8779 | 0.100                    | -0.9080 | 0.100                      | -0.9032 |
| 0.125                       | -0.7685 | 0.125                    | -0.8938 | 0.125                      | -0.8354 |
| 0.150                       | -0.8414 | 0.150                    | -0.8725 | 0.150                      | -0.8009 |
| 0.175                       | -0.8299 | 0.175                    | -0.8434 | 0.175                      | -0.8192 |
| 0.200                       | -0.8978 | 0.200                    | -0.8435 | 0.200                      | -0.7967 |
| 0.250                       | -0.9478 | 0.250                    | -0.9293 | 0.250                      | -0.8305 |
| 0.300                       | -0.7736 | 0.300                    | -0.9332 | 0.300                      | -0.8428 |
| 0.350                       | -0.7730 | 0.350                    | -0.9516 | 0.350                      | -0.8264 |
| 0.400                       | -0.7513 | 0.400                    | -0.6636 | 0.400                      | -0.4618 |
| 0.450                       | -0.5050 | 0.450                    | -0.4735 | 0.450                      | -0.4525 |
| 0.500                       | -0.4725 | 0.500                    | -0.4606 | 0.500                      | -0.4149 |
| 0.550                       | -0.3979 | 0.550                    | -0.4390 | 0.550                      | -0.3871 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.5372 | 0.005 | 0.5763 | 0.005 | 0.5653 |
| 0.010         | 0.3811 | 0.010 | 0.3984 | 0.010 | 0.3501 |

Fight 31 Test point 25

Sweep, deg = 34.9 Mach = 0.81 hp, ft = 35300. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 224.0 Rnpu = 1958000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7172  | 0.000                    | 0.7661  | 0.000                      | 0.7550  |
| 0.005                       | 0.1720  | 0.005                    | 0.1877  | 0.005                      | 0.3838  |
| 0.010                       | -0.0406 | 0.010                    | -0.0066 | 0.010                      | 0.1548  |
| 0.020                       | -0.2291 | 0.020                    | -0.2163 | 0.020                      | -0.1111 |
| 0.040                       | -0.3755 | 0.040                    | -0.3610 | 0.040                      | -0.2669 |
| 0.060                       | -0.4275 | 0.060                    | -0.3997 | 0.060                      | -0.3423 |
| 0.080                       | -0.4694 | 0.080                    | -0.4356 | 0.080                      | -0.3771 |
| 0.100                       | -0.4905 | 0.100                    | -0.4446 | 0.100                      | -0.3949 |
| 0.125                       | -0.4716 | 0.125                    | -0.4662 | 0.125                      | -0.4184 |
| 0.150                       | -0.5285 | 0.150                    | -0.5048 | 0.150                      | -0.4420 |
| 0.175                       | -0.5394 | 0.175                    | -0.5355 | 0.175                      | -0.4823 |
| 0.200                       | -0.5872 | 0.200                    | -0.5552 | 0.200                      | -0.4745 |
| 0.250                       | -0.6199 | 0.250                    | -0.5993 | 0.250                      | -0.5129 |
| 0.300                       | -0.6045 | 0.300                    | -0.6667 | 0.300                      | -0.5071 |
| 0.350                       | -0.6007 | 0.350                    | -0.5702 | 0.350                      | -0.5272 |
| 0.400                       | -0.5567 | 0.400                    | -0.5328 | 0.400                      | -0.4853 |
| 0.450                       | -0.4429 | 0.450                    | -0.4861 | 0.450                      | -0.4485 |
| 0.500                       | -0.4394 | 0.500                    | -0.4639 | 0.500                      | -0.3975 |
| 0.550                       | -0.3763 | 0.550                    | -0.4354 | 0.550                      | -0.3681 |

| Lower surface |         |       |         |       |         |
|---------------|---------|-------|---------|-------|---------|
| 0.005         | 0.2042  | 0.005 | 0.2356  | 0.005 | 0.1820  |
| 0.010         | -0.0080 | 0.010 | -0.0312 | 0.010 | -0.1428 |

Fight 31 Test point 26

Sweep, deg = 30.3 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 223.0 Rnpu = 1956000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7805  | 0.000                    | 0.8170  | 0.000                      | 0.8068  |
| 0.005                       | -0.0563 | 0.005                    | -0.0413 | 0.005                      | 0.2043  |
| 0.010                       | -0.2890 | 0.010                    | -0.2594 | 0.010                      | -0.0808 |
| 0.020                       | -0.5046 | 0.020                    | -0.4871 | 0.020                      | -0.4030 |
| 0.040                       | -0.7105 | 0.040                    | -0.6254 | 0.040                      | -0.5436 |
| 0.060                       | -0.7201 | 0.060                    | -0.6890 | 0.060                      | -0.6773 |
| 0.080                       | -0.7429 | 0.080                    | -0.7078 | 0.080                      | -0.6298 |
| 0.100                       | -0.7451 | 0.100                    | -0.7203 | 0.100                      | -0.6384 |
| 0.125                       | -0.6806 | 0.125                    | -0.7162 | 0.125                      | -0.6157 |
| 0.150                       | -0.7615 | 0.150                    | -0.7079 | 0.150                      | -0.6591 |
| 0.175                       | -0.7569 | 0.175                    | -0.7287 | 0.175                      | -0.6956 |
| 0.200                       | -0.8318 | 0.200                    | -0.7580 | 0.200                      | -0.7154 |
| 0.250                       | -0.8940 | 0.250                    | -0.8692 | 0.250                      | -0.7862 |
| 0.300                       | -0.9188 | 0.300                    | -0.8955 | 0.300                      | -0.8177 |
| 0.350                       | -0.7449 | 0.350                    | -0.9423 | 0.350                      | -0.8749 |
| 0.400                       | -0.7726 | 0.400                    | -0.9949 | 0.400                      | -0.8872 |
| 0.450                       | -0.7517 | 0.450                    | -0.9720 | 0.450                      | -0.8098 |
| 0.500                       | -0.4728 | 0.500                    | -0.4581 | 0.500                      | -0.3487 |
| 0.550                       | -0.4054 | 0.550                    | -0.4101 | 0.550                      | -0.3529 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.4559 | 0.005 | 0.4886 | 0.005 | 0.4568 |
| 0.010         | 0.2572 | 0.010 | 0.2472 | 0.010 | 0.1628 |

Fight 31 Test point 27

Sweep, deg = 30.4 Mach = 0.81 hp, ft = 35200. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 224.0 Rnpu = 1962000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8031  | 0.000                    | 0.8441  | 0.000                      | 0.8329  |
| 0.005                       | 0.1412  | 0.005                    | 0.1713  | 0.005                      | 0.3817  |
| 0.010                       | -0.0858 | 0.010                    | -0.0452 | 0.010                      | 0.1297  |
| 0.020                       | -0.3090 | 0.020                    | -0.2788 | 0.020                      | -0.1740 |
| 0.040                       | -0.4844 | 0.040                    | -0.4407 | 0.040                      | -0.3364 |
| 0.060                       | -0.5519 | 0.060                    | -0.4847 | 0.060                      | -0.4308 |
| 0.080                       | -0.5760 | 0.080                    | -0.5179 | 0.080                      | -0.4632 |
| 0.100                       | -0.5689 | 0.100                    | -0.5394 | 0.100                      | -0.4793 |
| 0.125                       | -0.5550 | 0.125                    | -0.5293 | 0.125                      | -0.5163 |
| 0.150                       | -0.6405 | 0.150                    | -0.5805 | 0.150                      | -0.5218 |
| 0.175                       | -0.6621 | 0.175                    | -0.6456 | 0.175                      | -0.5883 |
| 0.200                       | -0.7092 | 0.200                    | -0.6598 | 0.200                      | -0.6075 |
| 0.250                       | -0.6732 | 0.250                    | -0.7487 | 0.250                      | -0.6470 |
| 0.300                       | -0.7496 | 0.300                    | -0.7710 | 0.300                      | -0.6843 |
| 0.350                       | -0.7479 | 0.350                    | -0.7953 | 0.350                      | -0.7451 |
| 0.400                       | -0.7249 | 0.400                    | -0.8729 | 0.400                      | -0.7649 |
| 0.450                       | -0.6877 | 0.450                    | -0.8090 | 0.450                      | -0.4156 |
| 0.500                       | -0.4633 | 0.500                    | -0.4377 | 0.500                      | -0.3977 |
| 0.550                       | -0.4045 | 0.550                    | -0.4324 | 0.550                      | -0.3848 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.3108 | 0.005 | 0.3319 | 0.005 | 0.2852  |
| 0.010         | 0.0825 | 0.010 | 0.0509 | 0.010 | -0.0528 |

Fight 31 Test point 28

Sweep, deg = 25.1 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 225.0 Rnpu = 1974000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8817  | 0.000                    | 0.9211  | 0.000                      | 0.9152  |
| 0.005                       | 0.0279  | 0.005                    | 0.0683  | 0.005                      | 0.3193  |
| 0.010                       | -0.2338 | 0.010                    | -0.1756 | 0.010                      | 0.0241  |
| 0.020                       | -0.4686 | 0.020                    | -0.4263 | 0.020                      | -0.3256 |
| 0.040                       | -0.6760 | 0.040                    | -0.5785 | 0.040                      | -0.4924 |
| 0.060                       | -0.7300 | 0.060                    | -0.6650 | 0.060                      | -0.6516 |
| 0.080                       | -0.7502 | 0.080                    | -0.6937 | 0.080                      | -0.6046 |
| 0.100                       | -0.7653 | 0.100                    | -0.7281 | 0.100                      | -0.6204 |
| 0.125                       | -0.7187 | 0.125                    | -0.7304 | 0.125                      | -0.6701 |
| 0.150                       | -0.7986 | 0.150                    | -0.7524 | 0.150                      | -0.6789 |
| 0.175                       | -0.8082 | 0.175                    | -0.7715 | 0.175                      | -0.6819 |
| 0.200                       | -0.8941 | 0.200                    | -0.7889 | 0.200                      | -0.6981 |
| 0.250                       | -0.9594 | 0.250                    | -0.8972 | 0.250                      | -0.7900 |
| 0.300                       | -1.0105 | 0.300                    | -0.9344 | 0.300                      | -0.8343 |
| 0.350                       | -1.0113 | 0.350                    | -0.9753 | 0.350                      | -0.9158 |
| 0.400                       | -1.0033 | 0.400                    | -1.0668 | 0.400                      | -0.9572 |
| 0.450                       | -1.0050 | 0.450                    | -1.0728 | 0.450                      | -1.0093 |
| 0.500                       | -1.0839 | 0.500                    | -0.6525 | 0.500                      | -1.0239 |
| 0.550                       | -0.4535 | 0.550                    | -0.4412 | 0.550                      | -0.4401 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5171 | 0.005 | 0.5264 | 0.005 | 0.4770 |
| 0.010 | 0.2883 | 0.010 | 0.2523 | 0.010 | 0.1486 |

Fight 31 Test point 29

Sweep, deg = 24.9 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 224.5 Rnpu = 1994000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8953  | 0.000                    | 0.9361  | 0.000                      | 0.9245  |
| 0.005                       | 0.1731  | 0.005                    | 0.2088  | 0.005                      | 0.4397  |
| 0.010                       | -0.0797 | 0.010                    | -0.0294 | 0.010                      | 0.1596  |
| 0.020                       | -0.3164 | 0.020                    | -0.2820 | 0.020                      | -0.1718 |
| 0.040                       | -0.5214 | 0.040                    | -0.4692 | 0.040                      | -0.3548 |
| 0.060                       | -0.5690 | 0.060                    | -0.5162 | 0.060                      | -0.4571 |
| 0.080                       | -0.6106 | 0.080                    | -0.5548 | 0.080                      | -0.4913 |
| 0.100                       | -0.6529 | 0.100                    | -0.5908 | 0.100                      | -0.5138 |
| 0.125                       | -0.6257 | 0.125                    | -0.6095 | 0.125                      | -0.5281 |
| 0.150                       | -0.7018 | 0.150                    | -0.6048 | 0.150                      | -0.6002 |
| 0.175                       | -0.7119 | 0.175                    | -0.6591 | 0.175                      | -0.6041 |
| 0.200                       | -0.7876 | 0.200                    | -0.6987 | 0.200                      | -0.6351 |
| 0.250                       | -0.8610 | 0.250                    | -0.8282 | 0.250                      | -0.7247 |
| 0.300                       | -0.9166 | 0.300                    | -0.8598 | 0.300                      | -0.7586 |
| 0.350                       | -0.9169 | 0.350                    | -0.9205 | 0.350                      | -0.8269 |
| 0.400                       | -0.9157 | 0.400                    | -0.9785 | 0.400                      | -0.8679 |
| 0.450                       | -0.8001 | 0.450                    | -0.9935 | 0.450                      | -0.9219 |
| 0.500                       | -0.7532 | 0.500                    | -1.0420 | 0.500                      | -0.9389 |
| 0.550                       | -0.4068 | 0.550                    | -0.5163 | 0.550                      | -0.4152 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.3858 | 0.005 | 0.4078 | 0.005 | 0.3487  |
| 0.010         | 0.1457 | 0.010 | 0.1049 | 0.010 | -0.0092 |

Fight 31 Test point 30

Sweep, deg = 24.9 Mach = 0.80 hp, ft = 35100. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 223.3 Rnpu = 1986000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8879  | 0.000                    | 0.9286  | 0.000                      | 0.9180  |
| 0.005                       | 0.0841  | 0.005                    | 0.1248  | 0.005                      | 0.3628  |
| 0.010                       | -0.1737 | 0.010                    | -0.1222 | 0.010                      | 0.0751  |
| 0.020                       | -0.4092 | 0.020                    | -0.3666 | 0.020                      | -0.2646 |
| 0.040                       | -0.6434 | 0.040                    | -0.5452 | 0.040                      | -0.4375 |
| 0.060                       | -0.6761 | 0.060                    | -0.6072 | 0.060                      | -0.5487 |
| 0.080                       | -0.7151 | 0.080                    | -0.6425 | 0.080                      | -0.5689 |
| 0.100                       | -0.7130 | 0.100                    | -0.6655 | 0.100                      | -0.5952 |
| 0.125                       | -0.6728 | 0.125                    | -0.6843 | 0.125                      | -0.5925 |
| 0.150                       | -0.7522 | 0.150                    | -0.6857 | 0.150                      | -0.6169 |
| 0.175                       | -0.7740 | 0.175                    | -0.7203 | 0.175                      | -0.6636 |
| 0.200                       | -0.8561 | 0.200                    | -0.7512 | 0.200                      | -0.6849 |
| 0.250                       | -0.9164 | 0.250                    | -0.8576 | 0.250                      | -0.7742 |
| 0.300                       | -0.9826 | 0.300                    | -0.9183 | 0.300                      | -0.8128 |
| 0.350                       | -0.9622 | 0.350                    | -0.9568 | 0.350                      | -0.8887 |
| 0.400                       | -0.9703 | 0.400                    | -1.0251 | 0.400                      | -0.9254 |
| 0.450                       | -0.9737 | 0.450                    | -1.0454 | 0.450                      | -0.9750 |
| 0.500                       | -0.9051 | 0.500                    | -1.0914 | 0.500                      | -1.0009 |
| 0.550                       | -0.4193 | 0.550                    | -0.4740 | 0.550                      | -0.4428 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
|               |        |       |        |       |        |
| 0.005         | 0.4613 | 0.005 | 0.4772 | 0.005 | 0.4285 |
| 0.010         | 0.2316 | 0.010 | 0.1907 | 0.010 | 0.0881 |



Fight 31 Test point 31

Sweep, deg = 20.1 Mach = 0.81 hp, ft = 35000. Angle of attack, deg = 2.7  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 228.3 Rnpu = 2020000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9576  | 0.000                    | 1.0046  | 0.000                      | 0.9922  |
| 0.005                       | 0.0534  | 0.005                    | 0.1183  | 0.005                      | 0.3816  |
| 0.010                       | -0.2163 | 0.010                    | -0.1440 | 0.010                      | 0.0727  |
| 0.020                       | -0.4654 | 0.020                    | -0.3994 | 0.020                      | -0.2943 |
| 0.040                       | -0.6497 | 0.040                    | -0.5837 | 0.040                      | -0.4694 |
| 0.060                       | -0.7511 | 0.060                    | -0.6606 | 0.060                      | -0.6258 |
| 0.080                       | -0.7900 | 0.080                    | -0.7050 | 0.080                      | -0.6168 |
| 0.100                       | -0.8107 | 0.100                    | -0.7364 | 0.100                      | -0.6531 |
| 0.125                       | -0.7368 | 0.125                    | -0.7473 | 0.125                      | -0.6517 |
| 0.150                       | -0.8586 | 0.150                    | -0.7682 | 0.150                      | -0.6982 |
| 0.175                       | -0.8505 | 0.175                    | -0.8029 | 0.175                      | -0.7025 |
| 0.200                       | -0.9318 | 0.200                    | -0.8292 | 0.200                      | -0.7286 |
| 0.250                       | -1.0086 | 0.250                    | -0.9230 | 0.250                      | -0.7974 |
| 0.300                       | -1.0707 | 0.300                    | -0.9721 | 0.300                      | -0.8571 |
| 0.350                       | -1.0808 | 0.350                    | -1.0083 | 0.350                      | -0.9336 |
| 0.400                       | -0.9323 | 0.400                    | -1.0907 | 0.400                      | -0.9793 |
| 0.450                       | -0.5414 | 0.450                    | -0.5519 | 0.450                      | -1.0418 |
| 0.500                       | -0.5228 | 0.500                    | -0.4486 | 0.500                      | -1.0472 |
| 0.550                       | -0.4766 | 0.550                    | -0.4007 | 0.550                      | -0.5315 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5902 | 0.005 | 0.5848 | 0.005 | 0.5331 |
| 0.010 | 0.3581 | 0.010 | 0.3033 | 0.010 | 0.1880 |

Fight 31 Test point 32

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 35200. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 220.9 Rnpu = 1979000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9683  | 0.000                    | 1.0113  | 0.000                      | 0.9962  |
| 0.005                       | 0.3568  | 0.005                    | 0.4101  | 0.005                      | 0.6217  |
| 0.010                       | 0.1013  | 0.010                    | 0.1715  | 0.010                      | 0.3518  |
| 0.020                       | -0.1530 | 0.020                    | -0.1003 | 0.020                      | 0.0257  |
| 0.040                       | -0.3752 | 0.040                    | -0.2978 | 0.040                      | -0.1814 |
| 0.060                       | -0.4584 | 0.060                    | -0.3697 | 0.060                      | -0.3074 |
| 0.080                       | -0.5155 | 0.080                    | -0.4309 | 0.080                      | -0.3564 |
| 0.100                       | -0.5429 | 0.100                    | -0.4643 | 0.100                      | -0.3921 |
| 0.125                       | -0.5413 | 0.125                    | -0.4690 | 0.125                      | -0.4257 |
| 0.150                       | -0.6228 | 0.150                    | -0.5190 | 0.150                      | -0.4757 |
| 0.175                       | -0.6534 | 0.175                    | -0.6096 | 0.175                      | -0.5204 |
| 0.200                       | -0.7369 | 0.200                    | -0.6380 | 0.200                      | -0.5664 |
| 0.250                       | -0.8235 | 0.250                    | -0.7665 | 0.250                      | -0.6349 |
| 0.300                       | -0.8744 | 0.300                    | -0.8062 | 0.300                      | -0.6900 |
| 0.350                       | -0.8983 | 0.350                    | -0.8660 | 0.350                      | -0.7646 |
| 0.400                       | -0.9063 | 0.400                    | -0.9434 | 0.400                      | -0.8054 |
| 0.450                       | -0.9109 | 0.450                    | -0.9531 | 0.450                      | -0.8675 |
| 0.500                       | -0.8988 | 0.500                    | -1.0160 | 0.500                      | -0.8811 |
| 0.550                       | -0.3913 | 0.550                    | -0.6637 | 0.550                      | -0.6877 |

| Lower surface |        |       |         |       |         |
|---------------|--------|-------|---------|-------|---------|
| 0.005         | 0.3027 | 0.005 | 0.2961  | 0.005 | 0.2333  |
| 0.010         | 0.0234 | 0.010 | -0.0479 | 0.010 | -0.1892 |

Fight 31 Test point 33

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 35300. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 218.4 Rnpu = 1968000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9687  | 0.000                    | 1.0181  | 0.000                      | 1.0042  |
| 0.005                       | 0.2338  | 0.005                    | 0.2902  | 0.005                      | 0.5272  |
| 0.010                       | -0.0315 | 0.010                    | 0.0414  | 0.010                      | 0.2453  |
| 0.020                       | -0.2847 | 0.020                    | -0.2295 | 0.020                      | -0.1014 |
| 0.040                       | -0.5073 | 0.040                    | -0.4253 | 0.040                      | -0.3015 |
| 0.060                       | -0.5747 | 0.060                    | -0.4872 | 0.060                      | -0.4209 |
| 0.080                       | -0.6317 | 0.080                    | -0.5419 | 0.080                      | -0.4599 |
| 0.100                       | -0.6533 | 0.100                    | -0.5687 | 0.100                      | -0.4869 |
| 0.125                       | -0.6266 | 0.125                    | -0.6054 | 0.125                      | -0.5053 |
| 0.150                       | -0.7021 | 0.150                    | -0.5938 | 0.150                      | -0.5780 |
| 0.175                       | -0.7294 | 0.175                    | -0.6503 | 0.175                      | -0.5759 |
| 0.200                       | -0.8163 | 0.200                    | -0.7034 | 0.200                      | -0.6207 |
| 0.250                       | -0.8936 | 0.250                    | -0.8342 | 0.250                      | -0.7208 |
| 0.300                       | -0.9641 | 0.300                    | -0.8841 | 0.300                      | -0.7630 |
| 0.350                       | -0.9722 | 0.350                    | -0.9192 | 0.350                      | -0.8451 |
| 0.400                       | -0.9693 | 0.400                    | -1.0185 | 0.400                      | -0.8826 |
| 0.450                       | -0.9712 | 0.450                    | -1.0303 | 0.450                      | -0.9364 |
| 0.500                       | -1.0709 | 0.500                    | -1.0757 | 0.500                      | -0.9507 |
| 0.550                       | -0.4484 | 0.550                    | -0.4718 | 0.550                      | -0.6207 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4211 | 0.005 | 0.4167 | 0.005 | 0.3565  |
| 0.010 | 0.1622 | 0.010 | 0.0954 | 0.010 | -0.0368 |

Fight 31 Test point 34

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 30000. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 280.9 Rnpu = 2421000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9776  | 0.000                    | 1.0200  | 0.000                      | 1.0053  |
| 0.005                       | 0.2685  | 0.005                    | 0.3273  | 0.005                      | 0.5570  |
| 0.010                       | 0.0046  | 0.010                    | 0.0761  | 0.010                      | 0.2817  |
| 0.020                       | -0.2490 | 0.020                    | -0.1941 | 0.020                      | -0.0659 |
| 0.040                       | -0.4718 | 0.040                    | -0.3915 | 0.040                      | -0.2634 |
| 0.060                       | -0.5469 | 0.060                    | -0.4622 | 0.060                      | -0.3873 |
| 0.080                       | -0.5870 | 0.080                    | -0.5177 | 0.080                      | -0.4292 |
| 0.100                       | -0.6398 | 0.100                    | -0.5365 | 0.100                      | -0.4591 |
| 0.125                       | -0.6125 | 0.125                    | -0.5875 | 0.125                      | -0.4863 |
| 0.150                       | -0.6903 | 0.150                    | -0.5697 | 0.150                      | -0.5572 |
| 0.175                       | -0.7112 | 0.175                    | -0.6407 | 0.175                      | -0.5663 |
| 0.200                       | -0.8003 | 0.200                    | -0.6899 | 0.200                      | -0.6036 |
| 0.250                       | -0.8773 | 0.250                    | -0.8125 | 0.250                      | -0.7019 |
| 0.300                       | -0.9523 | 0.300                    | -0.8630 | 0.300                      | -0.7436 |
| 0.350                       | -0.9628 | 0.350                    | -0.9099 | 0.350                      | -0.8294 |
| 0.400                       | -0.9606 | 0.400                    | -1.0018 | 0.400                      | -0.8659 |
| 0.450                       | -0.9694 | 0.450                    | -1.0159 | 0.450                      | -0.9176 |
| 0.500                       | -1.0702 | 0.500                    | -1.0739 | 0.500                      | -0.9470 |
| 0.550                       | -0.5056 | 0.550                    | -0.4801 | 0.550                      | -0.7467 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3930 | 0.005 | 0.3873 | 0.005 | 0.3217  |
| 0.010 | 0.1278 | 0.010 | 0.0574 | 0.010 | -0.0785 |

Fight 31 Test point 35

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 29900. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 281.9 Rnpu = 2426000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0333  | 0.000                    | 1.0768  | 0.000                      | 1.0667  |
| 0.005                       | 0.3063  | 0.005                    | 0.3902  | 0.005                      | 0.6276  |
| 0.010                       | 0.0335  | 0.010                    | 0.1321  | 0.010                      | 0.3420  |
| 0.020                       | -0.2313 | 0.020                    | -0.1485 | 0.020                      | -0.0075 |
| 0.040                       | -0.4598 | 0.040                    | -0.3515 | 0.040                      | -0.2147 |
| 0.060                       | -0.5363 | 0.060                    | -0.4303 | 0.060                      | -0.3369 |
| 0.080                       | -0.6064 | 0.080                    | -0.4863 | 0.080                      | -0.3896 |
| 0.100                       | -0.6195 | 0.100                    | -0.5076 | 0.100                      | -0.4247 |
| 0.125                       | -0.6065 | 0.125                    | -0.5414 | 0.125                      | -0.4513 |
| 0.150                       | -0.6923 | 0.150                    | -0.5644 | 0.150                      | -0.5046 |
| 0.175                       | -0.7042 | 0.175                    | -0.6200 | 0.175                      | -0.5417 |
| 0.200                       | -0.7949 | 0.200                    | -0.6796 | 0.200                      | -0.5764 |
| 0.250                       | -0.8852 | 0.250                    | -0.7994 | 0.250                      | -0.6751 |
| 0.300                       | -0.9656 | 0.300                    | -0.8543 | 0.300                      | -0.7108 |
| 0.350                       | -0.9787 | 0.350                    | -0.8862 | 0.350                      | -0.7945 |
| 0.400                       | -1.0021 | 0.400                    | -1.0110 | 0.400                      | -0.8339 |
| 0.450                       | -1.0113 | 0.450                    | -1.0090 | 0.450                      | -0.8851 |
| 0.500                       | -1.1091 | 0.500                    | -0.9361 | 0.500                      | -0.9072 |
| 0.550                       | -0.4672 | 0.550                    | -0.4176 | 0.550                      | -0.9264 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.4375 | 0.005 | 0.4124 | 0.005 | 0.3387  |
| 0.010         | 0.1629 | 0.010 | 0.0740 | 0.010 | -0.0780 |

Fight 31 Test point 36

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 30100. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 280.5 R<sub>npu</sub> = 2417000.

| Upper surface               |                |                          |                |                            |                |
|-----------------------------|----------------|--------------------------|----------------|----------------------------|----------------|
| BL 200.8<br>Inboard station |                | BL 260<br>Middle station |                | BL 320<br>Outboard station |                |
| x/c                         | C <sub>p</sub> | x/c                      | C <sub>p</sub> | x/c                        | C <sub>p</sub> |
| 0.000                       | 0.9738         | 0.000                    | 1.0174         | 0.000                      | 1.0047         |
| 0.005                       | 0.1785         | 0.005                    | 0.2497         | 0.005                      | 0.4951         |
| 0.010                       | -0.0872        | 0.010                    | -0.0114        | 0.010                      | 0.2042         |
| 0.020                       | -0.3415        | 0.020                    | -0.2786        | 0.020                      | -0.1518        |
| 0.040                       | -0.5833        | 0.040                    | -0.4816        | 0.040                      | -0.3461        |
| 0.060                       | -0.6446        | 0.060                    | -0.5454        | 0.060                      | -0.4667        |
| 0.080                       | -0.6834        | 0.080                    | -0.6033        | 0.080                      | -0.5024        |
| 0.100                       | -0.6897        | 0.100                    | -0.6223        | 0.100                      | -0.5466        |
| 0.125                       | -0.6696        | 0.125                    | -0.6288        | 0.125                      | -0.5238        |
| 0.150                       | -0.7594        | 0.150                    | -0.6705        | 0.150                      | -0.5889        |
| 0.175                       | -0.7697        | 0.175                    | -0.6959        | 0.175                      | -0.6359        |
| 0.200                       | -0.8468        | 0.200                    | -0.7264        | 0.200                      | -0.6512        |
| 0.250                       | -0.9267        | 0.250                    | -0.8432        | 0.250                      | -0.7472        |
| 0.300                       | -1.0131        | 0.300                    | -0.9053        | 0.300                      | -0.8002        |
| 0.350                       | -1.0155        | 0.350                    | -0.9417        | 0.350                      | -0.8688        |
| 0.400                       | -1.0188        | 0.400                    | -1.0543        | 0.400                      | -0.9060        |
| 0.450                       | -1.0154        | 0.450                    | -1.0557        | 0.450                      | -0.9611        |
| 0.500                       | -1.0653        | 0.500                    | -0.5354        | 0.500                      | -0.9931        |
| 0.550                       | -0.4395        | 0.550                    | -0.4035        | 0.550                      | -0.6673        |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.4782 | 0.005 | 0.4600 | 0.005 | 0.3979 |
| 0.010         | 0.2217 | 0.010 | 0.1487 | 0.010 | 0.0199 |

Fight 31 Test point 37

Sweep, deg = 20.0 Mach = 0.30 hp, ft = 30100. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -4.7 QBAR, lb/ft<sup>2</sup> = 282.0 Rnpu = 2422000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0343  | 0.000                    | 1.0756  | 0.000                      | 1.0626  |
| 0.005                       | 0.2516  | 0.005                    | 0.3357  | 0.005                      | 0.5778  |
| 0.010                       | -0.0257 | 0.010                    | 0.0700  | 0.010                      | 0.2890  |
| 0.020                       | -0.2892 | 0.020                    | -0.2072 | 0.020                      | -0.0712 |
| 0.040                       | -0.5165 | 0.040                    | -0.4105 | 0.040                      | -0.2747 |
| 0.060                       | -0.6004 | 0.060                    | -0.4825 | 0.060                      | -0.3940 |
| 0.080                       | -0.6441 | 0.080                    | -0.5432 | 0.080                      | -0.4415 |
| 0.100                       | -0.6576 | 0.100                    | -0.5854 | 0.100                      | -0.4798 |
| 0.125                       | -0.6536 | 0.125                    | -0.5774 | 0.125                      | -0.4876 |
| 0.150                       | -0.7374 | 0.150                    | -0.6132 | 0.150                      | -0.5499 |
| 0.175                       | -0.7457 | 0.175                    | -0.6513 | 0.175                      | -0.5868 |
| 0.200                       | -0.8252 | 0.200                    | -0.6959 | 0.200                      | -0.6081 |
| 0.250                       | -0.9137 | 0.250                    | -0.8207 | 0.250                      | -0.7134 |
| 0.300                       | -0.9966 | 0.300                    | -0.8734 | 0.300                      | -0.7465 |
| 0.350                       | -1.0128 | 0.350                    | -0.9286 | 0.350                      | -0.8312 |
| 0.400                       | -1.0308 | 0.400                    | -1.0320 | 0.400                      | -0.8686 |
| 0.450                       | -1.0361 | 0.450                    | -1.0277 | 0.450                      | -0.9206 |
| 0.500                       | -0.5276 | 0.500                    | -0.5217 | 0.500                      | -0.9462 |
| 0.550                       | -0.4287 | 0.550                    | -0.3869 | 0.550                      | -0.9408 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4930 | 0.005 | 0.4656 | 0.005 | 0.4003 |
| 0.010 | 0.2250 | 0.010 | 0.1409 | 0.010 | 0.0009 |

Fight 31 Test point 38

Sweep, deg = 24.9 Mach = 0.80 hp, ft = 30000. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 282.4 Rnpu = 2428000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9030  | 0.000                    | 0.9473  | 0.000                      | 0.9338  |
| 0.005                       | 0.2229  | 0.005                    | 0.2650  | 0.005                      | 0.4852  |
| 0.010                       | -0.0281 | 0.010                    | 0.0241  | 0.010                      | 0.2157  |
| 0.020                       | -0.2760 | 0.020                    | -0.2322 | 0.020                      | -0.1143 |
| 0.040                       | -0.4774 | 0.040                    | -0.4171 | 0.040                      | -0.3015 |
| 0.060                       | -0.5506 | 0.060                    | -0.4742 | 0.060                      | -0.4030 |
| 0.080                       | -0.5607 | 0.080                    | -0.5249 | 0.080                      | -0.4513 |
| 0.100                       | -0.6323 | 0.100                    | -0.5384 | 0.100                      | -0.4754 |
| 0.125                       | -0.6043 | 0.125                    | -0.5752 | 0.125                      | -0.5017 |
| 0.150                       | -0.6754 | 0.150                    | -0.5770 | 0.150                      | -0.5639 |
| 0.175                       | -0.6865 | 0.175                    | -0.6410 | 0.175                      | -0.5834 |
| 0.200                       | -0.7522 | 0.200                    | -0.6855 | 0.200                      | -0.6082 |
| 0.250                       | -0.8266 | 0.250                    | -0.7934 | 0.250                      | -0.6977 |
| 0.300                       | -0.8921 | 0.300                    | -0.8326 | 0.300                      | -0.7316 |
| 0.350                       | -0.9040 | 0.350                    | -0.9063 | 0.350                      | -0.7997 |
| 0.400                       | -0.9075 | 0.400                    | -0.9594 | 0.400                      | -0.8461 |
| 0.450                       | -0.8014 | 0.450                    | -0.9756 | 0.450                      | -0.9037 |
| 0.500                       | -0.8088 | 0.500                    | -1.0312 | 0.500                      | -0.9266 |
| 0.550                       | -0.4039 | 0.550                    | -0.5929 | 0.550                      | -0.4657 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3534 | 0.005 | 0.3563 | 0.005 | 0.3029  |
| 0.010 | 0.0983 | 0.010 | 0.0478 | 0.010 | -0.0720 |



Fight 31 Test point 39

Sweep, deg = 24.9 Mach = 0.80 hp, ft = 30000. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 279.4 Rnpu = 2412000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8879  | 0.000                    | 0.9219  | 0.000                      | 0.9168  |
| 0.005                       | 0.0319  | 0.005                    | 0.0758  | 0.005                      | 0.3280  |
| 0.010                       | -0.2219 | 0.010                    | -0.1739 | 0.010                      | 0.0331  |
| 0.020                       | -0.4669 | 0.020                    | -0.4210 | 0.020                      | -0.3159 |
| 0.040                       | -0.6805 | 0.040                    | -0.5856 | 0.040                      | -0.4878 |
| 0.060                       | -0.7306 | 0.060                    | -0.6596 | 0.060                      | -0.6314 |
| 0.080                       | -0.7499 | 0.080                    | -0.6909 | 0.080                      | -0.6129 |
| 0.100                       | -0.7689 | 0.100                    | -0.7194 | 0.100                      | -0.6162 |
| 0.125                       | -0.7170 | 0.125                    | -0.7297 | 0.125                      | -0.6800 |
| 0.150                       | -0.8008 | 0.150                    | -0.7504 | 0.150                      | -0.6352 |
| 0.175                       | -0.8069 | 0.175                    | -0.7703 | 0.175                      | -0.6818 |
| 0.200                       | -0.8385 | 0.200                    | -0.7946 | 0.200                      | -0.7069 |
| 0.250                       | -0.9546 | 0.250                    | -0.8904 | 0.250                      | -0.7918 |
| 0.300                       | -1.0045 | 0.300                    | -0.9412 | 0.300                      | -0.8412 |
| 0.350                       | -1.0057 | 0.350                    | -0.9831 | 0.350                      | -0.9229 |
| 0.400                       | -0.9624 | 0.400                    | -1.0640 | 0.400                      | -0.9595 |
| 0.450                       | -1.0053 | 0.450                    | -1.0758 | 0.450                      | -1.0040 |
| 0.500                       | -0.8967 | 0.500                    | -1.1318 | 0.500                      | -1.0260 |
| 0.550                       | -0.4237 | 0.550                    | -0.4934 | 0.550                      | -0.4737 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.5036 | 0.005 | 0.5047 | 0.005 | 0.4545 |
| 0.010         | 0.2732 | 0.010 | 0.2337 | 0.010 | 0.1310 |

Flight 31 Test point 40

Sweep, deg = 24.9 Mach = 0.75 hp, ft = 30000. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 249.7 Rnpu = 2267000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8775  | 0.000                    | 0.9185  | 0.000                      | 0.9175  |
| 0.005                       | 0.0243  | 0.005                    | 0.0641  | 0.005                      | 0.3430  |
| 0.010                       | -0.2365 | 0.010                    | -0.1865 | 0.010                      | 0.0422  |
| 0.020                       | -0.4842 | 0.020                    | -0.4395 | 0.020                      | -0.2999 |
| 0.040                       | -0.6629 | 0.040                    | -0.6030 | 0.040                      | -0.4665 |
| 0.060                       | -0.7071 | 0.060                    | -0.6346 | 0.060                      | -0.5537 |
| 0.080                       | -0.7139 | 0.080                    | -0.6582 | 0.080                      | -0.5703 |
| 0.100                       | -0.7427 | 0.100                    | -0.6681 | 0.100                      | -0.5831 |
| 0.125                       | -0.6766 | 0.125                    | -0.6533 | 0.125                      | -0.5931 |
| 0.150                       | -0.7635 | 0.150                    | -0.6769 | 0.150                      | -0.6244 |
| 0.175                       | -0.7745 | 0.175                    | -0.7686 | 0.175                      | -0.6575 |
| 0.200                       | -0.8255 | 0.200                    | -0.7498 | 0.200                      | -0.6510 |
| 0.250                       | -0.8173 | 0.250                    | -0.8601 | 0.250                      | -0.7156 |
| 0.300                       | -0.7899 | 0.300                    | -0.8404 | 0.300                      | -0.6827 |
| 0.350                       | -0.7777 | 0.350                    | -0.8887 | 0.350                      | -0.6748 |
| 0.400                       | -0.6382 | 0.400                    | -0.6249 | 0.400                      | -0.6055 |
| 0.450                       | -0.5382 | 0.450                    | -0.5903 | 0.450                      | -0.5670 |
| 0.500                       | -0.5211 | 0.500                    | -0.5697 | 0.500                      | -0.4987 |
| 0.550                       | -0.4448 | 0.550                    | -0.5299 | 0.550                      | -0.4565 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4570 | 0.005 | 0.4739 | 0.005 | 0.4121 |
| 0.010 | 0.2262 | 0.010 | 0.1903 | 0.010 | 0.0639 |

Fight 31 Test point 41

Sweep, deg = 24.9 Mach = 0.76 hp, ft = 30100. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 250.0 Rnpu = 2267000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8906  | 0.000                    | 0.9302  | 0.000                      | 0.9230  |
| 0.005                       | 0.1596  | 0.005                    | 0.2076  | 0.005                      | 0.4568  |
| 0.010                       | -0.0967 | 0.010                    | -0.0337 | 0.010                      | 0.1813  |
| 0.020                       | -0.3387 | 0.020                    | -0.2928 | 0.020                      | -0.1516 |
| 0.040                       | -0.5231 | 0.040                    | -0.4604 | 0.040                      | -0.3277 |
| 0.060                       | -0.5833 | 0.060                    | -0.5049 | 0.060                      | -0.4247 |
| 0.080                       | -0.6154 | 0.080                    | -0.5466 | 0.080                      | -0.4556 |
| 0.100                       | -0.6353 | 0.100                    | -0.5650 | 0.100                      | -0.4788 |
| 0.125                       | -0.5919 | 0.125                    | -0.5656 | 0.125                      | -0.4996 |
| 0.150                       | -0.6699 | 0.150                    | -0.6160 | 0.150                      | -0.5334 |
| 0.175                       | -0.6624 | 0.175                    | -0.6601 | 0.175                      | -0.5695 |
| 0.200                       | -0.7439 | 0.200                    | -0.6728 | 0.200                      | -0.5679 |
| 0.250                       | -0.7560 | 0.250                    | -0.7389 | 0.250                      | -0.6198 |
| 0.300                       | -0.7071 | 0.300                    | -0.8218 | 0.300                      | -0.6184 |
| 0.350                       | -0.7113 | 0.350                    | -0.7338 | 0.350                      | -0.6183 |
| 0.400                       | -0.6065 | 0.400                    | -0.6615 | 0.400                      | -0.5779 |
| 0.450                       | -0.5314 | 0.450                    | -0.5836 | 0.450                      | -0.5419 |
| 0.500                       | -0.5135 | 0.500                    | -0.5568 | 0.500                      | -0.4886 |
| 0.550                       | -0.4412 | 0.550                    | -0.5191 | 0.550                      | -0.4533 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.3526 | 0.005 | 0.3519 | 0.005 | 0.2811  |
| 0.010         | 0.1024 | 0.010 | 0.0439 | 0.010 | -0.0967 |

Fight 31 Test point 42

Sweep, deg = 20.0 Mach = 0.76 hp, ft = 30000. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 250.1 Rnpu = 2269000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9515  | 0.000                    | 0.9985  | 0.000                      | 0.9883  |
| 0.005                       | 0.1030  | 0.005                    | 0.1616  | 0.005                      | 0.4328  |
| 0.010                       | -0.1708 | 0.010                    | -0.1042 | 0.010                      | 0.1325  |
| 0.020                       | -0.4305 | 0.020                    | -0.3717 | 0.020                      | -0.2269 |
| 0.040                       | -0.6343 | 0.040                    | -0.5495 | 0.040                      | -0.4115 |
| 0.060                       | -0.6947 | 0.060                    | -0.5995 | 0.060                      | -0.5134 |
| 0.080                       | -0.6989 | 0.080                    | -0.6468 | 0.080                      | -0.5430 |
| 0.100                       | -0.7626 | 0.100                    | -0.6578 | 0.100                      | -0.5619 |
| 0.125                       | -0.7123 | 0.125                    | -0.6459 | 0.125                      | -0.5135 |
| 0.150                       | -0.7894 | 0.150                    | -0.6896 | 0.150                      | -0.6235 |
| 0.175                       | -0.7853 | 0.175                    | -0.7638 | 0.175                      | -0.6566 |
| 0.200                       | -0.8762 | 0.200                    | -0.7734 | 0.200                      | -0.6826 |
| 0.250                       | -0.9276 | 0.250                    | -0.8943 | 0.250                      | -0.7334 |
| 0.300                       | -0.9711 | 0.300                    | -0.9211 | 0.300                      | -0.7569 |
| 0.350                       | -0.8767 | 0.350                    | -0.9750 | 0.350                      | -0.8039 |
| 0.400                       | -0.7486 | 0.400                    | -1.0088 | 0.400                      | -0.6567 |
| 0.450                       | -0.5404 | 0.450                    | -0.5301 | 0.450                      | -0.5861 |
| 0.500                       | -0.5319 | 0.500                    | -0.5448 | 0.500                      | -0.5253 |
| 0.550                       | -0.4583 | 0.550                    | -0.5285 | 0.550                      | -0.4660 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4654 | 0.005 | 0.4666 | 0.005 | 0.3972 |
| 0.010 | 0.2091 | 0.010 | 0.1562 | 0.010 | 0.0127 |

Fight 31 Test point 43

Sweep, deg = 20.1 Mach = 0.75 hp, ft = 29900. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 247.2 Rnpu = 2254000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0005  | 0.000                    | 1.0502  | 0.000                      | 1.0430  |
| 0.005                       | 0.0668  | 0.005                    | 0.1568  | 0.005                      | 0.4508  |
| 0.010                       | -0.2113 | 0.010                    | -0.1263 | 0.010                      | 0.1408  |
| 0.020                       | -0.4873 | 0.020                    | -0.3986 | 0.020                      | -0.2379 |
| 0.040                       | -0.7056 | 0.040                    | -0.5867 | 0.040                      | -0.4249 |
| 0.060                       | -0.7637 | 0.060                    | -0.6409 | 0.060                      | -0.5299 |
| 0.080                       | -0.8081 | 0.080                    | -0.6783 | 0.080                      | -0.5564 |
| 0.100                       | -0.7794 | 0.100                    | -0.6892 | 0.100                      | -0.5805 |
| 0.125                       | -0.7324 | 0.125                    | -0.6864 | 0.125                      | -0.5872 |
| 0.150                       | -0.8339 | 0.150                    | -0.7141 | 0.150                      | -0.6271 |
| 0.175                       | -0.8326 | 0.175                    | -0.7738 | 0.175                      | -0.6604 |
| 0.200                       | -0.9325 | 0.200                    | -0.8229 | 0.200                      | -0.6922 |
| 0.250                       | -1.0006 | 0.250                    | -0.9221 | 0.250                      | -0.7409 |
| 0.300                       | -1.0505 | 0.300                    | -0.9639 | 0.300                      | -0.7664 |
| 0.350                       | -1.0329 | 0.350                    | -0.9862 | 0.350                      | -0.7891 |
| 0.400                       | -0.5894 | 0.400                    | -1.0494 | 0.400                      | -0.7568 |
| 0.450                       | -0.5132 | 0.450                    | -0.5564 | 0.450                      | -0.6027 |
| 0.500                       | -0.5100 | 0.500                    | -0.5314 | 0.500                      | -0.5403 |
| 0.550                       | -0.4395 | 0.550                    | -0.5195 | 0.550                      | -0.4780 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.5571 | 0.005 | 0.5409 | 0.005 | 0.4615 |
| 0.010         | 0.3009 | 0.010 | 0.2297 | 0.010 | 0.0750 |

Fight 31 Test point 44

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 30100. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 247.4 Rnpu = 2255000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9590  | 0.000                    | 1.0007  | 0.000                      | 0.9870  |
| 0.005                       | 0.2061  | 0.005                    | 0.2750  | 0.005                      | 0.5241  |
| 0.010                       | -0.0624 | 0.010                    | 0.0148  | 0.010                      | 0.2369  |
| 0.020                       | -0.3216 | 0.020                    | -0.2523 | 0.020                      | -0.1110 |
| 0.040                       | -0.5255 | 0.040                    | -0.4442 | 0.040                      | -0.3036 |
| 0.060                       | -0.5929 | 0.060                    | -0.4992 | 0.060                      | -0.4099 |
| 0.080                       | -0.6356 | 0.080                    | -0.5440 | 0.080                      | -0.4444 |
| 0.100                       | -0.6555 | 0.100                    | -0.5676 | 0.100                      | -0.4720 |
| 0.125                       | -0.6153 | 0.125                    | -0.5758 | 0.125                      | -0.4975 |
| 0.150                       | -0.7143 | 0.150                    | -0.6338 | 0.150                      | -0.5416 |
| 0.175                       | -0.7430 | 0.175                    | -0.6755 | 0.175                      | -0.5721 |
| 0.200                       | -0.7781 | 0.200                    | -0.7041 | 0.200                      | -0.5936 |
| 0.250                       | -0.8471 | 0.250                    | -0.8259 | 0.250                      | -0.6507 |
| 0.300                       | -0.8117 | 0.300                    | -0.8780 | 0.300                      | -0.6745 |
| 0.350                       | -0.7498 | 0.350                    | -0.8846 | 0.350                      | -0.6556 |
| 0.400                       | -0.6356 | 0.400                    | -0.6345 | 0.400                      | -0.6127 |
| 0.450                       | -0.5441 | 0.450                    | -0.6011 | 0.450                      | -0.5803 |
| 0.500                       | -0.5249 | 0.500                    | -0.5848 | 0.500                      | -0.5140 |
| 0.550                       | -0.4496 | 0.550                    | -0.5413 | 0.550                      | -0.4620 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3722 | 0.005 | 0.3649 | 0.005 | 0.2860  |
| 0.010 | 0.1064 | 0.010 | 0.0376 | 0.010 | -0.1177 |

Fight 31 Test point 45

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 29800. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 251.8 Rnpu = 2278000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0149  | 0.000                    | 1.0610  | 0.000                      | 1.0454  |
| 0.005                       | 0.2880  | 0.005                    | 0.3763  | 0.005                      | 0.6276  |
| 0.010                       | 0.0106  | 0.010                    | 0.1141  | 0.010                      | 0.3488  |
| 0.020                       | -0.2578 | 0.020                    | -0.1719 | 0.020                      | -0.0048 |
| 0.040                       | -0.4768 | 0.040                    | -0.3688 | 0.040                      | -0.2185 |
| 0.060                       | -0.5521 | 0.060                    | -0.4376 | 0.060                      | -0.3355 |
| 0.080                       | -0.5997 | 0.080                    | -0.4851 | 0.080                      | -0.3768 |
| 0.100                       | -0.6288 | 0.100                    | -0.5163 | 0.100                      | -0.4099 |
| 0.125                       | -0.5985 | 0.125                    | -0.5306 | 0.125                      | -0.4390 |
| 0.150                       | -0.7031 | 0.150                    | -0.5918 | 0.150                      | -0.4870 |
| 0.175                       | -0.7187 | 0.175                    | -0.6519 | 0.175                      | -0.5238 |
| 0.200                       | -0.7862 | 0.200                    | -0.6843 | 0.200                      | -0.5509 |
| 0.250                       | -0.8625 | 0.250                    | -0.7934 | 0.250                      | -0.6215 |
| 0.300                       | -0.9017 | 0.300                    | -0.7757 | 0.300                      | -0.6348 |
| 0.350                       | -0.7438 | 0.350                    | -0.8994 | 0.350                      | -0.6825 |
| 0.400                       | -0.6080 | 0.400                    | -0.8661 | 0.400                      | -0.6126 |
| 0.450                       | -0.5314 | 0.450                    | -0.5610 | 0.450                      | -0.5860 |
| 0.500                       | -0.5127 | 0.500                    | -0.5698 | 0.500                      | -0.5188 |
| 0.550                       | -0.4375 | 0.550                    | -0.5313 | 0.550                      | -0.4591 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.3763 | 0.005 | 0.3495 | 0.005 | 0.2604  |
| 0.010         | 0.0938 | 0.010 | 0.0002 | 0.010 | -0.1760 |

Fight 31 Test point 46

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 272.0 Rnpu = 2529000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9305  | 0.000                    | 0.9733  | 0.000                      | 0.9750  |
| 0.005                       | -0.0196 | 0.005                    | 0.0560  | 0.005                      | 0.3689  |
| 0.010                       | -0.2958 | 0.010                    | -0.2156 | 0.010                      | 0.0644  |
| 0.020                       | -0.5546 | 0.020                    | -0.4776 | 0.020                      | -0.3097 |
| 0.040                       | -0.7231 | 0.040                    | -0.6307 | 0.040                      | -0.4670 |
| 0.060                       | -0.7493 | 0.060                    | -0.6563 | 0.060                      | -0.5478 |
| 0.080                       | -0.7539 | 0.080                    | -0.6732 | 0.080                      | -0.5474 |
| 0.100                       | -0.7584 | 0.100                    | -0.6688 | 0.100                      | -0.5599 |
| 0.125                       | -0.6852 | 0.125                    | -0.6726 | 0.125                      | -0.5682 |
| 0.150                       | -0.7727 | 0.150                    | -0.7056 | 0.150                      | -0.5841 |
| 0.175                       | -0.7502 | 0.175                    | -0.7397 | 0.175                      | -0.6090 |
| 0.200                       | -0.8060 | 0.200                    | -0.7384 | 0.200                      | -0.6161 |
| 0.250                       | -0.7804 | 0.250                    | -0.8028 | 0.250                      | -0.6385 |
| 0.300                       | -0.7399 | 0.300                    | -0.7571 | 0.300                      | -0.6301 |
| 0.350                       | -0.6910 | 0.350                    | -0.6911 | 0.350                      | -0.6233 |
| 0.400                       | -0.6189 | 0.400                    | -0.6854 | 0.400                      | -0.5932 |
| 0.450                       | -0.5521 | 0.450                    | -0.6007 | 0.450                      | -0.5612 |
| 0.500                       | -0.5332 | 0.500                    | -0.5826 | 0.500                      | -0.5128 |
| 0.550                       | -0.4502 | 0.550                    | -0.5413 | 0.550                      | -0.4758 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5056 | 0.005 | 0.5074 | 0.005 | 0.4206 |
| 0.010 | 0.2603 | 0.010 | 0.1975 | 0.010 | 0.0400 |



Fight 31 Test point 47

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 270.8 Rnpu = 2522000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9868  | 0.000                    | 1.0342  | 0.000                      | 1.0292  |
| 0.005                       | 0.0180  | 0.005                    | 0.1231  | 0.005                      | 0.4448  |
| 0.010                       | -0.2696 | 0.010                    | -0.1608 | 0.010                      | 0.1282  |
| 0.020                       | -0.5305 | 0.020                    | -0.4266 | 0.020                      | -0.2384 |
| 0.040                       | -0.7111 | 0.040                    | -0.5912 | 0.040                      | -0.4102 |
| 0.060                       | -0.7458 | 0.060                    | -0.6227 | 0.060                      | -0.4918 |
| 0.080                       | -0.7612 | 0.080                    | -0.6463 | 0.080                      | -0.5117 |
| 0.100                       | -0.7667 | 0.100                    | -0.6563 | 0.100                      | -0.5297 |
| 0.125                       | -0.6897 | 0.125                    | -0.6495 | 0.125                      | -0.5363 |
| 0.150                       | -0.7803 | 0.150                    | -0.6877 | 0.150                      | -0.5622 |
| 0.175                       | -0.7533 | 0.175                    | -0.7186 | 0.175                      | -0.5861 |
| 0.200                       | -0.8206 | 0.200                    | -0.7260 | 0.200                      | -0.5881 |
| 0.250                       | -0.7915 | 0.250                    | -0.7905 | 0.250                      | -0.6199 |
| 0.300                       | -0.7570 | 0.300                    | -0.7609 | 0.300                      | -0.6068 |
| 0.350                       | -0.6876 | 0.350                    | -0.7084 | 0.350                      | -0.6134 |
| 0.400                       | -0.6210 | 0.400                    | -0.6787 | 0.400                      | -0.5880 |
| 0.450                       | -0.5416 | 0.450                    | -0.6027 | 0.450                      | -0.5609 |
| 0.500                       | -0.5165 | 0.500                    | -0.5779 | 0.500                      | -0.5076 |
| 0.550                       | -0.4369 | 0.550                    | -0.5368 | 0.550                      | -0.4728 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5375 | 0.005 | 0.5088 | 0.005 | 0.4120 |
| 0.010 | 0.2806 | 0.010 | 0.1953 | 0.010 | 0.0155 |

Fight 31 Test point 48

Sweep, deg = 20.0 Mach = 0.69 hp, ft = 25000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 263.4 Rnpu = 2488000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9421  | 0.000                    | 0.9826  | 0.000                      | 0.9737  |
| 0.005                       | 0.1470  | 0.005                    | 0.2189  | 0.005                      | 0.5003  |
| 0.010                       | -0.1233 | 0.010                    | -0.0441 | 0.010                      | 0.2102  |
| 0.020                       | -0.3737 | 0.020                    | -0.2966 | 0.020                      | -0.1309 |
| 0.040                       | -0.5467 | 0.040                    | -0.4609 | 0.040                      | -0.3054 |
| 0.060                       | -0.5929 | 0.060                    | -0.5028 | 0.060                      | -0.3901 |
| 0.080                       | -0.6204 | 0.080                    | -0.5346 | 0.080                      | -0.4202 |
| 0.100                       | -0.6239 | 0.100                    | -0.5446 | 0.100                      | -0.4406 |
| 0.125                       | -0.5799 | 0.125                    | -0.5517 | 0.125                      | -0.4564 |
| 0.150                       | -0.6509 | 0.150                    | -0.5873 | 0.150                      | -0.4856 |
| 0.175                       | -0.6408 | 0.175                    | -0.6169 | 0.175                      | -0.5050 |
| 0.200                       | -0.5967 | 0.200                    | -0.6228 | 0.200                      | -0.5121 |
| 0.250                       | -0.6881 | 0.250                    | -0.6846 | 0.250                      | -0.5472 |
| 0.300                       | -0.6730 | 0.300                    | -0.6640 | 0.300                      | -0.5439 |
| 0.350                       | -0.6215 | 0.350                    | -0.6240 | 0.350                      | -0.5543 |
| 0.400                       | -0.5747 | 0.400                    | -0.6194 | 0.400                      | -0.5323 |
| 0.450                       | -0.5071 | 0.450                    | -0.5570 | 0.450                      | -0.5146 |
| 0.500                       | -0.4917 | 0.500                    | -0.5450 | 0.500                      | -0.4793 |
| 0.550                       | -0.4283 | 0.550                    | -0.5172 | 0.550                      | -0.4606 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3697 | 0.005 | 0.3565 | 0.005 | 0.2571  |
| 0.010 | 0.1009 | 0.010 | 0.0307 | 0.010 | -0.1505 |

Flight 31 Test point 49

Sweep, deg = 20.0 Mach = 0.71 hp, ft = 25100. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -5.2 QBAR, lb/ft<sup>2</sup> = 272.6 Rnpu = 2527000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0007  | 0.000                    | 1.0481  | 0.000                      | 1.0344  |
| 0.005                       | 0.2001  | 0.005                    | 0.2977  | 0.005                      | 0.5831  |
| 0.010                       | -0.0786 | 0.010                    | 0.0286  | 0.010                      | 0.2933  |
| 0.020                       | -0.3457 | 0.020                    | -0.2443 | 0.020                      | -0.0620 |
| 0.040                       | -0.5343 | 0.040                    | -0.4228 | 0.040                      | -0.2553 |
| 0.060                       | -0.5913 | 0.060                    | -0.4752 | 0.060                      | -0.3535 |
| 0.080                       | -0.6235 | 0.080                    | -0.5147 | 0.080                      | -0.3915 |
| 0.100                       | -0.6392 | 0.100                    | -0.5308 | 0.100                      | -0.4163 |
| 0.125                       | -0.5975 | 0.125                    | -0.5431 | 0.125                      | -0.4369 |
| 0.150                       | -0.6797 | 0.150                    | -0.5913 | 0.150                      | -0.4719 |
| 0.175                       | -0.6706 | 0.175                    | -0.6238 | 0.175                      | -0.4935 |
| 0.200                       | -0.7310 | 0.200                    | -0.6410 | 0.200                      | -0.5125 |
| 0.250                       | -0.7271 | 0.250                    | -0.7067 | 0.250                      | -0.5571 |
| 0.300                       | -0.7034 | 0.300                    | -0.6924 | 0.300                      | -0.5501 |
| 0.350                       | -0.6518 | 0.350                    | -0.6523 | 0.350                      | -0.5650 |
| 0.400                       | -0.5816 | 0.400                    | -0.6400 | 0.400                      | -0.5481 |
| 0.450                       | -0.5186 | 0.450                    | -0.5746 | 0.450                      | -0.5290 |
| 0.500                       | -0.4979 | 0.500                    | -0.5546 | 0.500                      | -0.4857 |
| 0.550                       | -0.4274 | 0.550                    | -0.5213 | 0.550                      | -0.4561 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4025 | 0.005 | 0.3631 | 0.005 | 0.2514  |
| 0.010 | 0.1266 | 0.010 | 0.0225 | 0.010 | -0.1766 |

Fight 31 Test point 50

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = -0.2  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 436.2 Rnpu = 3480000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9674  | 0.000                    | 1.0021  | 0.000                      | 0.9854  |
| 0.005                       | 0.4328  | 0.005                    | 0.4917  | 0.005                      | 0.6809  |
| 0.010                       | 0.1778  | 0.010                    | 0.2492  | 0.010                      | 0.4356  |
| 0.020                       | -0.0814 | 0.020                    | -0.0177 | 0.020                      | 0.1020  |
| 0.040                       | -0.3022 | 0.040                    | -0.2220 | 0.040                      | -0.1086 |
| 0.060                       | -0.3912 | 0.060                    | -0.3082 | 0.060                      | -0.2364 |
| 0.080                       | -0.4557 | 0.080                    | -0.3708 | 0.080                      | -0.2928 |
| 0.100                       | -0.5029 | 0.100                    | -0.4068 | 0.100                      | -0.3324 |
| 0.125                       | -0.4892 | 0.125                    | -0.4270 | 0.125                      | -0.3707 |
| 0.150                       | -0.5812 | 0.150                    | -0.4942 | 0.150                      | -0.4268 |
| 0.175                       | -0.6035 | 0.175                    | -0.5392 | 0.175                      | -0.4817 |
| 0.200                       | -0.6848 | 0.200                    | -0.5825 | 0.200                      | -0.4990 |
| 0.250                       | -0.7611 | 0.250                    | -0.7024 | 0.250                      | -0.5863 |
| 0.300                       | -0.8369 | 0.300                    | -0.7546 | 0.300                      | -0.6427 |
| 0.350                       | -0.8611 | 0.350                    | -0.8419 | 0.350                      | -0.7203 |
| 0.400                       | -0.8785 | 0.400                    | -0.8984 | 0.400                      | -0.7715 |
| 0.450                       | -0.8863 | 0.450                    | -0.9242 | 0.450                      | -0.8363 |
| 0.500                       | -0.9142 | 0.500                    | -0.9816 | 0.500                      | -0.8597 |
| 0.550                       | -0.4155 | 0.550                    | -1.0069 | 0.550                      | -0.8799 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2279  | 0.005 | 0.2080  | 0.005 | 0.1422  |
| 0.010 | -0.0579 | 0.010 | -0.1502 | 0.010 | -0.2959 |

Fight 31 Test point 51

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 19900. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 435.1 Rnpu = 3470000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0248  | 0.000                    | 1.0624  | 0.000                      | 1.0384  |
| 0.005                       | 0.4988  | 0.005                    | 0.5767  | 0.005                      | 0.7636  |
| 0.010                       | 0.2358  | 0.010                    | 0.3290  | 0.010                      | 0.5172  |
| 0.020                       | -0.0309 | 0.020                    | 0.0497  | 0.020                      | 0.1792  |
| 0.040                       | -0.2618 | 0.040                    | -0.1639 | 0.040                      | -0.0418 |
| 0.060                       | -0.3598 | 0.060                    | -0.2547 | 0.060                      | -0.1731 |
| 0.080                       | -0.4258 | 0.080                    | -0.3225 | 0.080                      | -0.2356 |
| 0.100                       | -0.4757 | 0.100                    | -0.3653 | 0.100                      | -0.2798 |
| 0.125                       | -0.4730 | 0.125                    | -0.3938 | 0.125                      | -0.3220 |
| 0.150                       | -0.5601 | 0.150                    | -0.4602 | 0.150                      | -0.3792 |
| 0.175                       | -0.5897 | 0.175                    | -0.5136 | 0.175                      | -0.4302 |
| 0.200                       | -0.6697 | 0.200                    | -0.5537 | 0.200                      | -0.4616 |
| 0.250                       | -0.7591 | 0.250                    | -0.6859 | 0.250                      | -0.5589 |
| 0.300                       | -0.8393 | 0.300                    | -0.7374 | 0.300                      | -0.5946 |
| 0.350                       | -0.8559 | 0.350                    | -0.8104 | 0.350                      | -0.6832 |
| 0.400                       | -0.8791 | 0.400                    | -0.8864 | 0.400                      | -0.7341 |
| 0.450                       | -0.9024 | 0.450                    | -0.9149 | 0.450                      | -0.7923 |
| 0.500                       | -0.9793 | 0.500                    | -0.9737 | 0.500                      | -0.8245 |
| 0.550                       | -0.3739 | 0.550                    | -1.0036 | 0.550                      | -0.8522 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2413  | 0.005 | 0.2037  | 0.005 | 0.1438  |
| 0.010 | -0.0571 | 0.010 | -0.1720 | 0.010 | -0.3110 |

Fight 31 Test point 52

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 430.3 Rnpu = 3450000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9730  | 0.000                    | 1.0092  | 0.000                      | 0.9914  |
| 0.005                       | 0.3404  | 0.005                    | 0.4095  | 0.005                      | 0.6224  |
| 0.010                       | 0.0794  | 0.010                    | 0.1538  | 0.010                      | 0.3621  |
| 0.020                       | -0.1807 | 0.020                    | -0.1144 | 0.020                      | 0.0169  |
| 0.040                       | -0.4004 | 0.040                    | -0.3144 | 0.040                      | -0.1903 |
| 0.060                       | -0.4899 | 0.060                    | -0.3917 | 0.060                      | -0.3130 |
| 0.080                       | -0.5342 | 0.080                    | -0.4531 | 0.080                      | -0.3646 |
| 0.100                       | -0.5865 | 0.100                    | -0.4894 | 0.100                      | -0.3996 |
| 0.125                       | -0.5762 | 0.125                    | -0.4964 | 0.125                      | -0.4362 |
| 0.150                       | -0.6580 | 0.150                    | -0.5539 | 0.150                      | -0.4851 |
| 0.175                       | -0.6651 | 0.175                    | -0.6210 | 0.175                      | -0.5357 |
| 0.200                       | -0.7437 | 0.200                    | -0.6193 | 0.200                      | -0.5701 |
| 0.250                       | -0.8238 | 0.250                    | -0.7589 | 0.250                      | -0.6467 |
| 0.300                       | -0.8727 | 0.300                    | -0.8098 | 0.300                      | -0.7106 |
| 0.350                       | -0.9012 | 0.350                    | -0.8838 | 0.350                      | -0.7753 |
| 0.400                       | -0.9282 | 0.400                    | -0.9582 | 0.400                      | -0.8274 |
| 0.450                       | -0.9504 | 0.450                    | -0.9824 | 0.450                      | -0.8808 |
| 0.500                       | -1.0196 | 0.500                    | -1.0313 | 0.500                      | -0.9063 |
| 0.550                       | -0.4254 | 0.550                    | -0.9841 | 0.550                      | -0.9178 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3143 | 0.005 | 0.2862  | 0.005 | 0.2144  |
| 0.010 | 0.0346 | 0.010 | -0.0540 | 0.010 | -0.2102 |

Fight 31 Test point 53

Sweep, deg = 20.0 Mach = 0.79 hp, ft = 20100. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -4.7 QBAR, lb/ft<sup>2</sup> = 427.5 Rnpu = 3442000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0321  | 0.000                    | 1.0707  | 0.000                      | 1.0555  |
| 0.005                       | 0.3517  | 0.005                    | 0.4340  | 0.005                      | 0.6589  |
| 0.010                       | 0.0786  | 0.010                    | 0.1694  | 0.010                      | 0.3874  |
| 0.020                       | -0.1913 | 0.020                    | -0.1073 | 0.020                      | 0.0312  |
| 0.040                       | -0.4175 | 0.040                    | -0.3140 | 0.040                      | -0.1797 |
| 0.060                       | -0.5038 | 0.060                    | -0.3960 | 0.060                      | -0.3070 |
| 0.080                       | -0.5417 | 0.080                    | -0.4567 | 0.080                      | -0.3628 |
| 0.100                       | -0.6129 | 0.100                    | -0.4862 | 0.100                      | -0.4006 |
| 0.125                       | -0.5782 | 0.125                    | -0.5019 | 0.125                      | -0.4295 |
| 0.150                       | -0.6608 | 0.150                    | -0.5541 | 0.150                      | -0.4786 |
| 0.175                       | -0.6908 | 0.175                    | -0.6104 | 0.175                      | -0.5270 |
| 0.200                       | -0.7779 | 0.200                    | -0.6560 | 0.200                      | -0.5598 |
| 0.250                       | -0.8596 | 0.250                    | -0.7647 | 0.250                      | -0.6468 |
| 0.300                       | -0.9385 | 0.300                    | -0.8319 | 0.300                      | -0.6953 |
| 0.350                       | -0.9533 | 0.350                    | -0.8750 | 0.350                      | -0.7841 |
| 0.400                       | -0.9726 | 0.400                    | -0.9870 | 0.400                      | -0.8254 |
| 0.450                       | -0.9934 | 0.450                    | -1.0051 | 0.450                      | -0.8708 |
| 0.500                       | -1.0753 | 0.500                    | -1.0604 | 0.500                      | -0.9063 |
| 0.550                       | -0.5313 | 0.550                    | -0.7434 | 0.550                      | -0.9445 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3871 | 0.005 | 0.3490  | 0.005 | 0.2734  |
| 0.010 | 0.1035 | 0.010 | -0.0003 | 0.010 | -0.1555 |

Fight 31 Test point 54

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20100. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 436.7 Rnpu = 3479000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9750  | 0.000                    | 1.0104  | 0.000                      | 0.9956  |
| 0.005                       | 0.3305  | 0.005                    | 0.3929  | 0.005                      | 0.6054  |
| 0.010                       | 0.0689  | 0.010                    | 0.1387  | 0.010                      | 0.3433  |
| 0.020                       | -0.1922 | 0.020                    | -0.1299 | 0.020                      | -0.0026 |
| 0.040                       | -0.4101 | 0.040                    | -0.3341 | 0.040                      | -0.2055 |
| 0.060                       | -0.4949 | 0.060                    | -0.4066 | 0.060                      | -0.3302 |
| 0.080                       | -0.5262 | 0.080                    | -0.4659 | 0.080                      | -0.3811 |
| 0.100                       | -0.6036 | 0.100                    | -0.4903 | 0.100                      | -0.4181 |
| 0.125                       | -0.5773 | 0.125                    | -0.5238 | 0.125                      | -0.4489 |
| 0.150                       | -0.6547 | 0.150                    | -0.5474 | 0.150                      | -0.4903 |
| 0.175                       | -0.6773 | 0.175                    | -0.6113 | 0.175                      | -0.5374 |
| 0.200                       | -0.7506 | 0.200                    | -0.6445 | 0.200                      | -0.5688 |
| 0.250                       | -0.8329 | 0.250                    | -0.7585 | 0.250                      | -0.6526 |
| 0.300                       | -0.8965 | 0.300                    | -0.8107 | 0.300                      | -0.7194 |
| 0.350                       | -0.9046 | 0.350                    | -0.8763 | 0.350                      | -0.7854 |
| 0.400                       | -0.9201 | 0.400                    | -0.9591 | 0.400                      | -0.8416 |
| 0.450                       | -0.9565 | 0.450                    | -0.9933 | 0.450                      | -0.8846 |
| 0.500                       | -1.0433 | 0.500                    | -1.0471 | 0.500                      | -0.9258 |
| 0.550                       | -0.5443 | 0.550                    | -0.7433 | 0.550                      | -0.9338 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3409 | 0.005 | 0.3197  | 0.005 | 0.2500  |
| 0.010 | 0.0667 | 0.010 | -0.0165 | 0.010 | -0.1624 |



Flight 31 Test point 55

Sweep, deg = 20.0 Mach = 0.81 hp, ft = 19900. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 444.7 Rrho = 3530000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0377  | 0.000                    | 1.0744  | 0.000                      | 1.0579  |
| 0.005                       | 0.4325  | 0.005                    | 0.5145  | 0.005                      | 0.7184  |
| 0.010                       | 0.1705  | 0.010                    | 0.2601  | 0.010                      | 0.4600  |
| 0.020                       | -0.0955 | 0.020                    | -0.0126 | 0.020                      | 0.1158  |
| 0.040                       | -0.3212 | 0.040                    | -0.2204 | 0.040                      | -0.0948 |
| 0.060                       | -0.4123 | 0.060                    | -0.3076 | 0.060                      | -0.2269 |
| 0.080                       | -0.4717 | 0.080                    | -0.3730 | 0.080                      | -0.2831 |
| 0.100                       | -0.5177 | 0.100                    | -0.4122 | 0.100                      | -0.3236 |
| 0.125                       | -0.5288 | 0.125                    | -0.4304 | 0.125                      | -0.3582 |
| 0.150                       | -0.5997 | 0.150                    | -0.4869 | 0.150                      | -0.4126 |
| 0.175                       | -0.6198 | 0.175                    | -0.5532 | 0.175                      | -0.4613 |
| 0.200                       | -0.7090 | 0.200                    | -0.5689 | 0.200                      | -0.4928 |
| 0.250                       | -0.7865 | 0.250                    | -0.6979 | 0.250                      | -0.5820 |
| 0.300                       | -0.8580 | 0.300                    | -0.7636 | 0.300                      | -0.6401 |
| 0.350                       | -0.8852 | 0.350                    | -0.8159 | 0.350                      | -0.7143 |
| 0.400                       | -0.9077 | 0.400                    | -0.9143 | 0.400                      | -0.7719 |
| 0.450                       | -0.9243 | 0.450                    | -0.9381 | 0.450                      | -0.8086 |
| 0.500                       | -0.9948 | 0.500                    | -0.9914 | 0.500                      | -0.8494 |
| 0.550                       | -0.6359 | 0.550                    | -0.9875 | 0.550                      | -0.8874 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3334 | 0.005 | 0.2971  | 0.005 | 0.2315  |
| 0.010 | 0.0472 | 0.010 | -0.0592 | 0.010 | -0.2050 |

Fight 31 Test point 56

Sweep, deg = 20.0 Mach = 0.76 hp, ft = 20000. Angle of attack, deg = -0.2  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 387.6 Rnpu = 3256000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9533  | 0.000                    | 0.9938  | 0.000                      | 0.9777  |
| 0.005                       | 0.3329  | 0.005                    | 0.3996  | 0.005                      | 0.6221  |
| 0.010                       | 0.0687  | 0.010                    | 0.1447  | 0.010                      | 0.3596  |
| 0.020                       | -0.1936 | 0.020                    | -0.1272 | 0.020                      | 0.0138  |
| 0.040                       | -0.4060 | 0.040                    | -0.3242 | 0.040                      | -0.1891 |
| 0.060                       | -0.4800 | 0.060                    | -0.3978 | 0.060                      | -0.3063 |
| 0.080                       | -0.5351 | 0.080                    | -0.4527 | 0.080                      | -0.3580 |
| 0.100                       | -0.5688 | 0.100                    | -0.4822 | 0.100                      | -0.3939 |
| 0.125                       | -0.5420 | 0.125                    | -0.5044 | 0.125                      | -0.4228 |
| 0.150                       | -0.6366 | 0.150                    | -0.5550 | 0.150                      | -0.4682 |
| 0.175                       | -0.6404 | 0.175                    | -0.6064 | 0.175                      | -0.5055 |
| 0.200                       | -0.7309 | 0.200                    | -0.6393 | 0.200                      | -0.5308 |
| 0.250                       | -0.7758 | 0.250                    | -0.7489 | 0.250                      | -0.6014 |
| 0.300                       | -0.7594 | 0.300                    | -0.7845 | 0.300                      | -0.6321 |
| 0.350                       | -0.7455 | 0.350                    | -0.7735 | 0.350                      | -0.6475 |
| 0.400                       | -0.6632 | 0.400                    | -0.6234 | 0.400                      | -0.6029 |
| 0.450                       | -0.5435 | 0.450                    | -0.6035 | 0.450                      | -0.5759 |
| 0.500                       | -0.5217 | 0.500                    | -0.5782 | 0.500                      | -0.5209 |
| 0.550                       | -0.4552 | 0.550                    | -0.5516 | 0.550                      | -0.4837 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2568  | 0.005 | 0.2327  | 0.005 | 0.1497  |
| 0.010 | -0.0275 | 0.010 | -0.1206 | 0.010 | -0.2874 |

Fight 31 Test point 57

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 19900. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 378.3 Rnpu = 3212000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0121  | 0.000                    | 1.0544  | 0.000                      | 1.0369  |
| 0.005                       | 0.3482  | 0.005                    | 0.4315  | 0.005                      | 0.6707  |
| 0.010                       | 0.0720  | 0.010                    | 0.1656  | 0.010                      | 0.4026  |
| 0.020                       | -0.2026 | 0.020                    | -0.1141 | 0.020                      | 0.0459  |
| 0.040                       | -0.4206 | 0.040                    | -0.3154 | 0.040                      | -0.1616 |
| 0.060                       | -0.4999 | 0.060                    | -0.3930 | 0.060                      | -0.2865 |
| 0.080                       | -0.5543 | 0.080                    | -0.4467 | 0.080                      | -0.3344 |
| 0.100                       | -0.5889 | 0.100                    | -0.4797 | 0.100                      | -0.3721 |
| 0.125                       | -0.5610 | 0.125                    | -0.5042 | 0.125                      | -0.4002 |
| 0.150                       | -0.6606 | 0.150                    | -0.5575 | 0.150                      | -0.4486 |
| 0.175                       | -0.6578 | 0.175                    | -0.6028 | 0.175                      | -0.4892 |
| 0.200                       | -0.7487 | 0.200                    | -0.6399 | 0.200                      | -0.5111 |
| 0.250                       | -0.8269 | 0.250                    | -0.7385 | 0.250                      | -0.5770 |
| 0.300                       | -0.7498 | 0.300                    | -0.7821 | 0.300                      | -0.5953 |
| 0.350                       | -0.7455 | 0.350                    | -0.7796 | 0.350                      | -0.6235 |
| 0.400                       | -0.6101 | 0.400                    | -0.6728 | 0.400                      | -0.5986 |
| 0.450                       | -0.5344 | 0.450                    | -0.6068 | 0.450                      | -0.5765 |
| 0.500                       | -0.5108 | 0.500                    | -0.5832 | 0.500                      | -0.5188 |
| 0.550                       | -0.4450 | 0.550                    | -0.5501 | 0.550                      | -0.4802 |

| Lower surface |        |       |         |       |         |
|---------------|--------|-------|---------|-------|---------|
| 0.005         | 0.3119 | 0.005 | 0.2700  | 0.005 | 0.1731  |
| 0.010         | 0.0163 | 0.010 | -0.0938 | 0.010 | -0.2820 |

Fight 32 Test point 1

Sweep, deg = 34.9 Mach = 0.71 hp, ft = 34900. Angle of attack, deg = 5.3  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 173.9 Rnpu = 1687000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.3799  | 0.000                    | 0.3216  | 0.000                      | 0.3489  |
| 0.005                       | -1.1248 | 0.005                    | -1.0737 | 0.005                      | -0.7376 |
| 0.010                       | -1.3928 | 0.010                    | -1.3651 | 0.010                      | -1.0983 |
| 0.020                       | -1.6624 | 0.020                    | -1.5391 | 0.020                      | -1.4947 |
| 0.040                       | -1.4606 | 0.040                    | -1.5990 | 0.040                      | -1.5825 |
| 0.060                       | -1.5126 | 0.060                    | -1.5677 | 0.060                      | -1.5294 |
| 0.080                       | -1.5021 | 0.080                    | -1.5263 | 0.080                      | -1.4585 |
| 0.100                       | -1.0539 | 0.100                    | -1.4865 | 0.100                      | -0.9020 |
| 0.125                       | -0.8054 | 0.125                    | -0.8546 | 0.125                      | -0.8473 |
| 0.150                       | -0.8792 | 0.150                    | -0.8365 | 0.150                      | -0.8238 |
| 0.175                       | -0.8474 | 0.175                    | -0.8431 | 0.175                      | -0.8178 |
| 0.200                       | -0.8598 | 0.200                    | -0.8401 | 0.200                      | -0.7644 |
| 0.250                       | -0.8142 | 0.250                    | -0.8379 | 0.250                      | -0.7439 |
| 0.300                       | -0.7446 | 0.300                    | -0.7628 | 0.300                      | -0.6719 |
| 0.350                       | -0.6703 | 0.350                    | -0.6670 | 0.350                      | -0.6329 |
| 0.400                       | -0.5904 | 0.400                    | -0.6332 | 0.400                      | -0.5766 |
| 0.450                       | -0.5070 | 0.450                    | -0.5454 | 0.450                      | -0.5232 |
| 0.500                       | -0.4830 | 0.500                    | -0.5077 | 0.500                      | -0.4531 |
| 0.550                       | -0.3996 | 0.550                    | -0.4584 | 0.550                      | -0.4079 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.7171 | 0.005 | 0.7436 | 0.005 | 0.7082 |
| 0.010 | 0.6239 | 0.010 | 0.6312 | 0.010 | 0.5931 |

Fight 32 Test point 2

Sweep, deg = 34.9 Mach = 0.71 hp, ft = 36100. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 164.3 Rnpu = 1607000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7524  | 0.000                    | 0.7610  | 0.000                      | 0.7376  |
| 0.005                       | 0.0885  | 0.005                    | 0.1139  | 0.005                      | 0.3385  |
| 0.010                       | -0.1445 | 0.010                    | -0.0589 | 0.010                      | 0.0979  |
| 0.020                       | -0.3179 | 0.020                    | -0.2592 | 0.020                      | -0.1523 |
| 0.040                       | -0.4028 | 0.040                    | -0.3720 | 0.040                      | -0.2749 |
| 0.060                       | -0.4364 | 0.060                    | -0.3768 | 0.060                      | -0.3240 |
| 0.080                       | -0.4541 | 0.080                    | -0.4046 | 0.080                      | -0.3417 |
| 0.100                       | -0.4472 | 0.100                    | -0.4048 | 0.100                      | -0.3522 |
| 0.125                       | -0.4200 | 0.125                    | -0.4214 | 0.125                      | -0.3700 |
| 0.150                       | -0.4682 | 0.150                    | -0.4381 | 0.150                      | -0.3846 |
| 0.175                       | -0.4696 | 0.175                    | -0.4421 | 0.175                      | -0.4023 |
| 0.200                       | -0.5064 | 0.200                    | -0.4567 | 0.200                      | -0.3824 |
| 0.250                       | -0.5089 | 0.250                    | -0.4989 | 0.250                      | -0.4165 |
| 0.300                       | -0.4853 | 0.300                    | -0.4880 | 0.300                      | -0.4093 |
| 0.350                       | -0.4609 | 0.350                    | -0.4353 | 0.350                      | -0.4124 |
| 0.400                       | -0.4270 | 0.400                    | -0.4497 | 0.400                      | -0.4114 |
| 0.450                       | -0.3726 | 0.450                    | -0.4007 | 0.450                      | -0.3905 |
| 0.500                       | -0.3802 | 0.500                    | -0.3981 | 0.500                      | -0.3577 |
| 0.550                       | -0.3287 | 0.550                    | -0.3836 | 0.550                      | -0.3432 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.2447 | 0.005 | 0.2709 | 0.005 | 0.1864  |
| 0.010         | 0.0129 | 0.010 | 0.0126 | 0.010 | -0.1302 |

Flight 32 Test point 3

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 35400. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 169.2 Rnpu = 1656000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7327  | 0.000                    | 0.7342  | 0.000                      | 0.7257  |
| 0.005                       | -0.0641 | 0.005                    | -0.0321 | 0.005                      | 0.2156  |
| 0.010                       | -0.3045 | 0.010                    | -0.2137 | 0.010                      | -0.0406 |
| 0.020                       | -0.4551 | 0.020                    | -0.4016 | 0.020                      | -0.2892 |
| 0.040                       | -0.5177 | 0.040                    | -0.4922 | 0.040                      | -0.3901 |
| 0.060                       | -0.5285 | 0.060                    | -0.4836 | 0.060                      | -0.4397 |
| 0.080                       | -0.5322 | 0.080                    | -0.4883 | 0.080                      | -0.4328 |
| 0.100                       | -0.5181 | 0.100                    | -0.4860 | 0.100                      | -0.4331 |
| 0.125                       | -0.4791 | 0.125                    | -0.4816 | 0.125                      | -0.4342 |
| 0.150                       | -0.5275 | 0.150                    | -0.5022 | 0.150                      | -0.4447 |
| 0.175                       | -0.5203 | 0.175                    | -0.5072 | 0.175                      | -0.4579 |
| 0.200                       | -0.5591 | 0.200                    | -0.5138 | 0.200                      | -0.4419 |
| 0.250                       | -0.5475 | 0.250                    | -0.5542 | 0.250                      | -0.4666 |
| 0.300                       | -0.5227 | 0.300                    | -0.5254 | 0.300                      | -0.4446 |
| 0.350                       | -0.4908 | 0.350                    | -0.4729 | 0.350                      | -0.4464 |
| 0.400                       | -0.4552 | 0.400                    | -0.4829 | 0.400                      | -0.4343 |
| 0.450                       | -0.3955 | 0.450                    | -0.4192 | 0.450                      | -0.4151 |
| 0.500                       | -0.3940 | 0.500                    | -0.4193 | 0.500                      | -0.3759 |
| 0.550                       | -0.3449 | 0.550                    | -0.3983 | 0.550                      | -0.3618 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3490 | 0.005 | 0.3814 | 0.005 | 0.3026 |
| 0.010 | 0.1283 | 0.010 | 0.1403 | 0.010 | 0.0217 |

Fight 32 Test point 4

Sweep, deg = 30.5 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 4.6  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 171.0 Rnpu = 1672000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.5383  | 0.000                    | 0.5127  | 0.000                      | 0.5405  |
| 0.005                       | -0.9474 | 0.005                    | -0.8867 | 0.005                      | -0.5218 |
| 0.010                       | -1.2557 | 0.010                    | -1.1876 | 0.010                      | -0.8984 |
| 0.020                       | -1.4939 | 0.020                    | -1.3455 | 0.020                      | -1.2749 |
| 0.040                       | -1.3771 | 0.040                    | -1.4451 | 0.040                      | -1.3721 |
| 0.060                       | -1.4587 | 0.060                    | -1.4519 | 0.060                      | -1.2904 |
| 0.080                       | -1.4260 | 0.080                    | -1.4087 | 0.080                      | -1.1682 |
| 0.100                       | -1.2812 | 0.100                    | -1.3337 | 0.100                      | -0.8616 |
| 0.125                       | -0.7867 | 0.125                    | -0.7515 | 0.125                      | -0.9089 |
| 0.150                       | -0.9413 | 0.150                    | -0.8811 | 0.150                      | -0.8288 |
| 0.175                       | -0.8464 | 0.175                    | -0.8974 | 0.175                      | -0.8424 |
| 0.200                       | -0.9152 | 0.200                    | -0.9008 | 0.200                      | -0.7982 |
| 0.250                       | -0.8475 | 0.250                    | -0.9037 | 0.250                      | -0.7680 |
| 0.300                       | -0.7803 | 0.300                    | -0.8150 | 0.300                      | -0.7074 |
| 0.350                       | -0.7042 | 0.350                    | -0.7117 | 0.350                      | -0.6696 |
| 0.400                       | -0.6219 | 0.400                    | -0.6760 | 0.400                      | -0.6161 |
| 0.450                       | -0.5345 | 0.450                    | -0.5798 | 0.450                      | -0.5585 |
| 0.500                       | -0.5132 | 0.500                    | -0.5444 | 0.500                      | -0.4879 |
| 0.550                       | -0.4238 | 0.550                    | -0.4963 | 0.550                      | -0.4389 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.7488 | 0.005 | 0.7771 | 0.005 | 0.7467 |
| 0.010 | 0.6131 | 0.010 | 0.6241 | 0.010 | 0.5728 |

Flight 32 Test point 5

Sweep, deg = 30.5 Mach = 0.69 hp, ft = 34100. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 174.9 Rnpu = 1717000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8200  | 0.000                    | 0.8373  | 0.000                      | 0.8100  |
| 0.005                       | 0.1352  | 0.005                    | 0.1818  | 0.005                      | 0.4212  |
| 0.010                       | -0.1098 | 0.010                    | -0.0187 | 0.010                      | 0.1723  |
| 0.020                       | -0.2994 | 0.020                    | -0.2347 | 0.020                      | -0.1013 |
| 0.040                       | -0.4121 | 0.040                    | -0.3671 | 0.040                      | -0.2569 |
| 0.060                       | -0.4549 | 0.060                    | -0.3923 | 0.060                      | -0.3206 |
| 0.080                       | -0.4775 | 0.080                    | -0.4197 | 0.080                      | -0.3445 |
| 0.100                       | -0.4728 | 0.100                    | -0.4317 | 0.100                      | -0.3608 |
| 0.125                       | -0.4445 | 0.125                    | -0.4331 | 0.125                      | -0.3776 |
| 0.150                       | -0.5028 | 0.150                    | -0.4625 | 0.150                      | -0.3905 |
| 0.175                       | -0.5021 | 0.175                    | -0.4740 | 0.175                      | -0.4142 |
| 0.200                       | -0.5377 | 0.200                    | -0.4882 | 0.200                      | -0.4030 |
| 0.250                       | -0.5417 | 0.250                    | -0.5449 | 0.250                      | -0.4478 |
| 0.300                       | -0.5188 | 0.300                    | -0.5243 | 0.300                      | -0.4366 |
| 0.350                       | -0.4994 | 0.350                    | -0.4759 | 0.350                      | -0.4501 |
| 0.400                       | -0.4625 | 0.400                    | -0.4918 | 0.400                      | -0.4341 |
| 0.450                       | -0.4065 | 0.450                    | -0.4383 | 0.450                      | -0.4213 |
| 0.500                       | -0.4090 | 0.500                    | -0.4375 | 0.500                      | -0.3894 |
| 0.550                       | -0.3561 | 0.550                    | -0.4256 | 0.550                      | -0.3756 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2379  | 0.005 | 0.2619  | 0.005 | 0.1647  |
| 0.010 | -0.0191 | 0.010 | -0.0270 | 0.010 | -0.1900 |



Fight 32 Test point 6

Sweep, deg = 30.4 Mach = 0.70 hp, ft = 34000. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 179.7 Rnpu = 1746000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8088  | 0.000                    | 0.8220  | 0.000                      | 0.8092  |
| 0.005                       | -0.0076 | 0.005                    | 0.0323  | 0.005                      | 0.2922  |
| 0.010                       | -0.2703 | 0.010                    | -0.1737 | 0.010                      | 0.0267  |
| 0.020                       | -0.4438 | 0.020                    | -0.3884 | 0.020                      | -0.2590 |
| 0.040                       | -0.5384 | 0.040                    | -0.4964 | 0.040                      | -0.3852 |
| 0.060                       | -0.5636 | 0.060                    | -0.5089 | 0.060                      | -0.4409 |
| 0.080                       | -0.5768 | 0.080                    | -0.5191 | 0.080                      | -0.4468 |
| 0.100                       | -0.5689 | 0.100                    | -0.5243 | 0.100                      | -0.4558 |
| 0.125                       | -0.5193 | 0.125                    | -0.5232 | 0.125                      | -0.4602 |
| 0.150                       | -0.5762 | 0.150                    | -0.5517 | 0.150                      | -0.4656 |
| 0.175                       | -0.5685 | 0.175                    | -0.5571 | 0.175                      | -0.4864 |
| 0.200                       | -0.6065 | 0.200                    | -0.5659 | 0.200                      | -0.4783 |
| 0.250                       | -0.6009 | 0.250                    | -0.6000 | 0.250                      | -0.5084 |
| 0.300                       | -0.5769 | 0.300                    | -0.5781 | 0.300                      | -0.4906 |
| 0.350                       | -0.5437 | 0.350                    | -0.5241 | 0.350                      | -0.4921 |
| 0.400                       | -0.4990 | 0.400                    | -0.5351 | 0.400                      | -0.4731 |
| 0.450                       | -0.4413 | 0.450                    | -0.4723 | 0.450                      | -0.4507 |
| 0.500                       | -0.4400 | 0.500                    | -0.4722 | 0.500                      | -0.4105 |
| 0.550                       | -0.3788 | 0.550                    | -0.4514 | 0.550                      | -0.3900 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3594 | 0.005 | 0.3856 | 0.005 | 0.3058  |
| 0.010 | 0.1153 | 0.010 | 0.1169 | 0.010 | -0.0174 |

Fight 32 Test point 7

Sweep, deg = 25.2 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 4.0  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 172.7 Rnpu = 1684000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7155  | 0.000                    | 0.7197  | 0.000                      | 0.7436  |
| 0.005                       | -0.7076 | 0.005                    | -0.6198 | 0.005                      | -0.2449 |
| 0.010                       | -1.0234 | 0.010                    | -0.9149 | 0.010                      | -0.6240 |
| 0.020                       | -1.1952 | 0.020                    | -1.1096 | 0.020                      | -1.0571 |
| 0.040                       | -1.2571 | 0.040                    | -1.2885 | 0.040                      | -1.0896 |
| 0.060                       | -1.3600 | 0.060                    | -1.3051 | 0.060                      | -1.1180 |
| 0.080                       | -1.3257 | 0.080                    | -1.2675 | 0.080                      | -1.0817 |
| 0.100                       | -1.2948 | 0.100                    | -1.2204 | 0.100                      | -1.0407 |
| 0.125                       | -1.0521 | 0.125                    | -1.1115 | 0.125                      | -0.8493 |
| 0.150                       | -0.9035 | 0.150                    | -0.7815 | 0.150                      | -0.9224 |
| 0.175                       | -0.8334 | 0.175                    | -0.9001 | 0.175                      | -0.8382 |
| 0.200                       | -0.9341 | 0.200                    | -0.9546 | 0.200                      | -0.8145 |
| 0.250                       | -0.9042 | 0.250                    | -1.0260 | 0.250                      | -0.8050 |
| 0.300                       | -0.8434 | 0.300                    | -0.8610 | 0.300                      | -0.7493 |
| 0.350                       | -0.7500 | 0.350                    | -0.7697 | 0.350                      | -0.7116 |
| 0.400                       | -0.6580 | 0.400                    | -0.7241 | 0.400                      | -0.6597 |
| 0.450                       | -0.5699 | 0.450                    | -0.6188 | 0.450                      | -0.5973 |
| 0.500                       | -0.5363 | 0.500                    | -0.5846 | 0.500                      | -0.5218 |
| 0.550                       | -0.4446 | 0.550                    | -0.5341 | 0.550                      | -0.4656 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.7625 | 0.005 | 0.8053 | 0.005 | 0.7514 |
| 0.010 | 0.5826 | 0.010 | 0.5951 | 0.010 | 0.5173 |

Fight 32 Test point 8

Sweep, deg = 25.1 Mach = 0.69 hp, ft = 35300. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.6 QBAR, lb/ft<sup>2</sup> = 162.2 Rnpu = 1615000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9043  | 0.000                    | 0.9313  | 0.000                      | 0.9034  |
| 0.005                       | 0.2080  | 0.005                    | 0.2813  | 0.005                      | 0.5208  |
| 0.010                       | -0.0608 | 0.010                    | 0.0526  | 0.010                      | 0.2567  |
| 0.020                       | -0.2633 | 0.020                    | -0.1931 | 0.020                      | -0.0418 |
| 0.040                       | -0.4118 | 0.040                    | -0.3430 | 0.040                      | -0.2230 |
| 0.060                       | -0.4677 | 0.060                    | -0.3800 | 0.060                      | -0.3038 |
| 0.080                       | -0.4997 | 0.080                    | -0.4176 | 0.080                      | -0.3336 |
| 0.100                       | -0.5014 | 0.100                    | -0.4352 | 0.100                      | -0.3609 |
| 0.125                       | -0.4739 | 0.125                    | -0.4433 | 0.125                      | -0.3782 |
| 0.150                       | -0.5393 | 0.150                    | -0.4797 | 0.150                      | -0.4097 |
| 0.175                       | -0.5357 | 0.175                    | -0.5042 | 0.175                      | -0.4236 |
| 0.200                       | -0.5854 | 0.200                    | -0.5245 | 0.200                      | -0.4202 |
| 0.250                       | -0.5879 | 0.250                    | -0.5857 | 0.250                      | -0.4662 |
| 0.300                       | -0.5607 | 0.300                    | -0.5570 | 0.300                      | -0.4703 |
| 0.350                       | -0.5445 | 0.350                    | -0.5171 | 0.350                      | -0.4793 |
| 0.400                       | -0.4983 | 0.400                    | -0.5354 | 0.400                      | -0.4703 |
| 0.450                       | -0.4339 | 0.450                    | -0.4672 | 0.450                      | -0.4540 |
| 0.500                       | -0.4321 | 0.500                    | -0.4757 | 0.500                      | -0.4152 |
| 0.550                       | -0.3717 | 0.550                    | -0.4511 | 0.550                      | -0.3961 |

| Lower surface |         |       |         |       |         |
|---------------|---------|-------|---------|-------|---------|
| 0.005         | 0.2302  | 0.005 | 0.2563  | 0.005 | 0.1392  |
| 0.010         | -0.0486 | 0.010 | -0.0722 | 0.010 | -0.2610 |

Fight 32 Test point 9

Sweep, deg = 25.1 Mach = 0.69 hp, ft = 35100. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 166.5 Rnpu = 1643000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8900  | 0.000                    | 0.9142  | 0.000                      | 0.9045  |
| 0.005                       | -0.0198 | 0.005                    | 0.0696  | 0.005                      | 0.3548  |
| 0.010                       | -0.2933 | 0.010                    | -0.1728 | 0.010                      | 0.0554  |
| 0.020                       | -0.4883 | 0.020                    | -0.4136 | 0.020                      | -0.2533 |
| 0.040                       | -0.6031 | 0.040                    | -0.5396 | 0.040                      | -0.4082 |
| 0.060                       | -0.6370 | 0.060                    | -0.5598 | 0.060                      | -0.4746 |
| 0.080                       | -0.6484 | 0.080                    | -0.5718 | 0.080                      | -0.4818 |
| 0.100                       | -0.6320 | 0.100                    | -0.5752 | 0.100                      | -0.4933 |
| 0.125                       | -0.5809 | 0.125                    | -0.5687 | 0.125                      | -0.5008 |
| 0.150                       | -0.6539 | 0.150                    | -0.6015 | 0.150                      | -0.5207 |
| 0.175                       | -0.6366 | 0.175                    | -0.6213 | 0.175                      | -0.5302 |
| 0.200                       | -0.6830 | 0.200                    | -0.6278 | 0.200                      | -0.5207 |
| 0.250                       | -0.6777 | 0.250                    | -0.6816 | 0.250                      | -0.5607 |
| 0.300                       | -0.6399 | 0.300                    | -0.6449 | 0.300                      | -0.5405 |
| 0.350                       | -0.6028 | 0.350                    | -0.5905 | 0.350                      | -0.5491 |
| 0.400                       | -0.5456 | 0.400                    | -0.5955 | 0.400                      | -0.5216 |
| 0.450                       | -0.4826 | 0.450                    | -0.5230 | 0.450                      | -0.5023 |
| 0.500                       | -0.4721 | 0.500                    | -0.5150 | 0.500                      | -0.4495 |
| 0.550                       | -0.4037 | 0.550                    | -0.4863 | 0.550                      | -0.4249 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4183 | 0.005 | 0.4482 | 0.005 | 0.3462  |
| 0.010 | 0.1564 | 0.010 | 0.1538 | 0.010 | -0.0147 |

Fight 32 Test point 10

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 3.7  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 170.9 Rnpu = 1670000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8117  | 0.000                    | 0.8383  | 0.000                      | 0.8614  |
| 0.005                       | -0.5949 | 0.005                    | -0.4826 | 0.005                      | -0.0967 |
| 0.010                       | -0.9258 | 0.010                    | -0.7839 | 0.010                      | -0.4765 |
| 0.020                       | -1.0861 | 0.020                    | -1.0067 | 0.020                      | -0.8983 |
| 0.040                       | -1.2126 | 0.040                    | -1.2251 | 0.040                      | -0.9911 |
| 0.060                       | -1.3232 | 0.060                    | -1.2119 | 0.060                      | -1.0731 |
| 0.080                       | -1.2772 | 0.080                    | -1.2058 | 0.080                      | -1.0125 |
| 0.100                       | -1.2778 | 0.100                    | -1.1468 | 0.100                      | -0.9214 |
| 0.125                       | -1.0327 | 0.125                    | -1.0740 | 0.125                      | -0.8300 |
| 0.150                       | -1.1903 | 0.150                    | -1.0118 | 0.150                      | -0.8969 |
| 0.175                       | -1.0798 | 0.175                    | -0.8453 | 0.175                      | -0.3648 |
| 0.200                       | -0.8548 | 0.200                    | -0.9211 | 0.200                      | -0.8384 |
| 0.250                       | -0.9399 | 0.250                    | -1.0573 | 0.250                      | -0.8283 |
| 0.300                       | -0.8799 | 0.300                    | -0.9992 | 0.300                      | -0.7745 |
| 0.350                       | -0.7689 | 0.350                    | -0.7845 | 0.350                      | -0.7474 |
| 0.400                       | -0.6839 | 0.400                    | -0.7545 | 0.400                      | -0.6864 |
| 0.450                       | -0.5848 | 0.450                    | -0.6563 | 0.450                      | -0.6339 |
| 0.500                       | -0.5487 | 0.500                    | -0.6130 | 0.500                      | -0.5564 |
| 0.550                       | -0.4575 | 0.550                    | -0.5512 | 0.550                      | -0.4907 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.7768 | 0.005 | 0.8114 | 0.005 | 0.7437 |
| 0.010         | 0.5762 | 0.010 | 0.5783 | 0.010 | 0.4771 |

Flight 32 Test point 11

Sweep, deg = 20.0 Mach = 0.69 hp, ft = 35400. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 164.4 Rrho = 1623000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9629  | 0.000                    | 0.9982  | 0.000                      | 0.9727  |
| 0.005                       | 0.1662  | 0.005                    | 0.2528  | 0.005                      | 0.5221  |
| 0.010                       | -0.1128 | 0.010                    | 0.0111  | 0.010                      | 0.2345  |
| 0.020                       | -0.3338 | 0.020                    | -0.2490 | 0.020                      | -0.0980 |
| 0.040                       | -0.4879 | 0.040                    | -0.4168 | 0.040                      | -0.2842 |
| 0.060                       | -0.5537 | 0.060                    | -0.4580 | 0.060                      | -0.3769 |
| 0.080                       | -0.5831 | 0.080                    | -0.4926 | 0.080                      | -0.3895 |
| 0.100                       | -0.5901 | 0.100                    | -0.5084 | 0.100                      | -0.4217 |
| 0.125                       | -0.5582 | 0.125                    | -0.5218 | 0.125                      | -0.4434 |
| 0.150                       | -0.6262 | 0.150                    | -0.5579 | 0.150                      | -0.4737 |
| 0.175                       | -0.6186 | 0.175                    | -0.5878 | 0.175                      | -0.4829 |
| 0.200                       | -0.6686 | 0.200                    | -0.6095 | 0.200                      | -0.4918 |
| 0.250                       | -0.6723 | 0.250                    | -0.6581 | 0.250                      | -0.5379 |
| 0.300                       | -0.6479 | 0.300                    | -0.6450 | 0.300                      | -0.5349 |
| 0.350                       | -0.6091 | 0.350                    | -0.5874 | 0.350                      | -0.5464 |
| 0.400                       | -0.5528 | 0.400                    | -0.6082 | 0.400                      | -0.5281 |
| 0.450                       | -0.4841 | 0.450                    | -0.5309 | 0.450                      | -0.5071 |
| 0.500                       | -0.4773 | 0.500                    | -0.5246 | 0.500                      | -0.4568 |
| 0.550                       | -0.4061 | 0.550                    | -0.4957 | 0.550                      | -0.4232 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3171 | 0.005 | 0.3542 | 0.005 | 0.2459  |
| 0.010 | 0.0320 | 0.010 | 0.0042 | 0.010 | -0.1817 |

Flight 32 Test point 12

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 35300. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 166.1 Rnpu = 1636000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9474  | 0.000                    | 0.9875  | 0.000                      | 0.9704  |
| 0.005                       | -0.0286 | 0.005                    | 0.0663  | 0.005                      | 0.3678  |
| 0.010                       | -0.3272 | 0.010                    | -0.1945 | 0.010                      | 0.0528  |
| 0.020                       | -0.5328 | 0.020                    | -0.4540 | 0.020                      | -0.2825 |
| 0.040                       | -0.6766 | 0.040                    | -0.5963 | 0.040                      | -0.4461 |
| 0.060                       | -0.7139 | 0.060                    | -0.6208 | 0.060                      | -0.5171 |
| 0.080                       | -0.7242 | 0.080                    | -0.6328 | 0.080                      | -0.5316 |
| 0.100                       | -0.7177 | 0.100                    | -0.6403 | 0.100                      | -0.5429 |
| 0.125                       | -0.6542 | 0.125                    | -0.6354 | 0.125                      | -0.5485 |
| 0.150                       | -0.7343 | 0.150                    | -0.6650 | 0.150                      | -0.5695 |
| 0.175                       | -0.7142 | 0.175                    | -0.6971 | 0.175                      | -0.5751 |
| 0.200                       | -0.7602 | 0.200                    | -0.7089 | 0.200                      | -0.5747 |
| 0.250                       | -0.7450 | 0.250                    | -0.7511 | 0.250                      | -0.6136 |
| 0.300                       | -0.7143 | 0.300                    | -0.7298 | 0.300                      | -0.6051 |
| 0.350                       | -0.6597 | 0.350                    | -0.6546 | 0.350                      | -0.6022 |
| 0.400                       | -0.5909 | 0.400                    | -0.6535 | 0.400                      | -0.5714 |
| 0.450                       | -0.5165 | 0.450                    | -0.5684 | 0.450                      | -0.5367 |
| 0.500                       | -0.5046 | 0.500                    | -0.5586 | 0.500                      | -0.4860 |
| 0.550                       | -0.4303 | 0.550                    | -0.5174 | 0.550                      | -0.4404 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.4781 | 0.005 | 0.5149 | 0.005 | 0.4115 |
| 0.010         | 0.2134 | 0.010 | 0.1936 | 0.010 | 0.0341 |

Flight 32 Test point 13

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 35000. Angle of attack, deg = 2.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 196.8 Rnpu = 1808000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9369  | 0.000                    | 0.9669  | 0.000                      | 0.9564  |
| 0.005                       | -0.1595 | 0.005                    | -0.0679 | 0.005                      | 0.2345  |
| 0.010                       | -0.4616 | 0.010                    | -0.3404 | 0.010                      | -0.1083 |
| 0.020                       | -0.6703 | 0.020                    | -0.5995 | 0.020                      | -0.4854 |
| 0.040                       | -0.8134 | 0.040                    | -0.7690 | 0.040                      | -0.6507 |
| 0.060                       | -0.9079 | 0.060                    | -0.8314 | 0.060                      | -0.8037 |
| 0.080                       | -0.9043 | 0.080                    | -0.8492 | 0.080                      | -0.7513 |
| 0.100                       | -0.9330 | 0.100                    | -0.8869 | 0.100                      | -0.7407 |
| 0.125                       | -0.8394 | 0.125                    | -0.8581 | 0.125                      | -0.7026 |
| 0.150                       | -0.9463 | 0.150                    | -0.8849 | 0.150                      | -0.7812 |
| 0.175                       | -0.9302 | 0.175                    | -0.8983 | 0.175                      | -0.8612 |
| 0.200                       | -1.0048 | 0.200                    | -0.9013 | 0.200                      | -0.8577 |
| 0.250                       | -1.0764 | 0.250                    | -0.9914 | 0.250                      | -0.8632 |
| 0.300                       | -1.1451 | 0.300                    | -1.0529 | 0.300                      | -0.9040 |
| 0.350                       | -1.1122 | 0.350                    | -1.0794 | 0.350                      | -0.9630 |
| 0.400                       | -0.6961 | 0.400                    | -1.1550 | 0.400                      | -0.9586 |
| 0.450                       | -0.5013 | 0.450                    | -1.1157 | 0.450                      | -0.4861 |
| 0.500                       | -0.4963 | 0.500                    | -0.4626 | 0.500                      | -0.5059 |
| 0.550                       | -0.4299 | 0.550                    | -0.4638 | 0.550                      | -0.4509 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.6241 | 0.005 | 0.6507 | 0.005 | 0.5839 |
| 0.010 | 0.3823 | 0.010 | 0.3725 | 0.010 | 0.2570 |



Flight 32 Test point 14

Sweep, deg = 20.0 Mach = 0.74 hp, ft = 34300. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 198.1 Rrho = 1830000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9754  | 0.000                    | 1.0070  | 0.000                      | 0.9872  |
| 0.005                       | 0.2847  | 0.005                    | 0.3610  | 0.005                      | 0.5947  |
| 0.010                       | 0.0006  | 0.010                    | 0.1178  | 0.010                      | 0.3173  |
| 0.020                       | -0.2324 | 0.020                    | -0.1639 | 0.020                      | -0.0151 |
| 0.040                       | -0.4206 | 0.040                    | -0.3463 | 0.040                      | -0.2170 |
| 0.060                       | -0.4934 | 0.060                    | -0.4106 | 0.060                      | -0.3304 |
| 0.080                       | -0.5431 | 0.080                    | -0.4603 | 0.080                      | -0.3744 |
| 0.100                       | -0.5614 | 0.100                    | -0.4813 | 0.100                      | -0.4034 |
| 0.125                       | -0.5423 | 0.125                    | -0.5059 | 0.125                      | -0.4300 |
| 0.150                       | -0.6364 | 0.150                    | -0.5539 | 0.150                      | -0.4739 |
| 0.175                       | -0.6409 | 0.175                    | -0.6059 | 0.175                      | -0.5025 |
| 0.200                       | -0.7094 | 0.200                    | -0.6328 | 0.200                      | -0.5132 |
| 0.250                       | -0.7344 | 0.250                    | -0.7272 | 0.250                      | -0.5792 |
| 0.300                       | -0.7156 | 0.300                    | -0.7333 | 0.300                      | -0.5868 |
| 0.350                       | -0.6648 | 0.350                    | -0.6571 | 0.350                      | -0.6104 |
| 0.400                       | -0.6012 | 0.400                    | -0.6679 | 0.400                      | -0.5746 |
| 0.450                       | -0.5133 | 0.450                    | -0.5740 | 0.450                      | -0.5416 |
| 0.500                       | -0.5003 | 0.500                    | -0.5594 | 0.500                      | -0.4802 |
| 0.550                       | -0.4277 | 0.550                    | -0.5218 | 0.550                      | -0.4280 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2638  | 0.005 | 0.2842  | 0.005 | 0.1943  |
| 0.010 | -0.0416 | 0.010 | -0.0695 | 0.010 | -0.2409 |

Fight 32 Test point 15

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 34500. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 201.6 Rnpu = 1846000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9819  | 0.000                    | 1.0047  | 0.000                      | 0.9868  |
| 0.005                       | 0.0922  | 0.005                    | 0.1774  | 0.005                      | 0.4336  |
| 0.010                       | -0.1998 | 0.010                    | -0.0881 | 0.010                      | 0.1325  |
| 0.020                       | -0.4239 | 0.020                    | -0.3520 | 0.020                      | -0.2224 |
| 0.040                       | -0.6079 | 0.040                    | -0.5421 | 0.040                      | -0.4081 |
| 0.060                       | -0.6821 | 0.060                    | -0.5919 | 0.060                      | -0.5131 |
| 0.080                       | -0.7008 | 0.080                    | -0.6283 | 0.080                      | -0.5377 |
| 0.100                       | -0.7359 | 0.100                    | -0.6503 | 0.100                      | -0.5559 |
| 0.125                       | -0.6808 | 0.125                    | -0.6443 | 0.125                      | -0.5869 |
| 0.150                       | -0.7634 | 0.150                    | -0.6695 | 0.150                      | -0.6239 |
| 0.175                       | -0.7795 | 0.175                    | -0.7585 | 0.175                      | -0.6371 |
| 0.200                       | -0.8647 | 0.200                    | -0.7760 | 0.200                      | -0.6565 |
| 0.250                       | -0.9144 | 0.250                    | -0.8773 | 0.250                      | -0.7114 |
| 0.300                       | -0.9481 | 0.300                    | -0.9181 | 0.300                      | -0.7576 |
| 0.350                       | -0.7369 | 0.350                    | -0.9442 | 0.350                      | -0.7731 |
| 0.400                       | -0.7070 | 0.400                    | -0.9829 | 0.400                      | -0.5978 |
| 0.450                       | -0.5376 | 0.450                    | -0.5342 | 0.450                      | -0.5951 |
| 0.500                       | -0.5183 | 0.500                    | -0.5681 | 0.500                      | -0.5220 |
| 0.550                       | -0.4426 | 0.550                    | -0.5367 | 0.550                      | -0.4521 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.4514 | 0.005 | 0.4786 | 0.005 | 0.3937 |
| 0.010         | 0.1728 | 0.010 | 0.1538 | 0.010 | 0.0106 |

Fight 32 Test point 16

Sweep, deg = 25.0 Mach = 0.75 hp, ft = 35000. Angle of attack, deg = 2.8  
 Angle of sideslip, deg = 0.5 QBAR, lb/ft<sup>2</sup> = 196.5 Rnpu = 1795000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8486  | 0.000                    | 0.8539  | 0.000                      | 0.8520  |
| 0.005                       | -0.2744 | 0.005                    | -0.2043 | 0.005                      | 0.0910  |
| 0.010                       | -0.5771 | 0.010                    | -0.4680 | 0.010                      | -0.2415 |
| 0.020                       | -0.7640 | 0.020                    | -0.7043 | 0.020                      | -0.6053 |
| 0.040                       | -0.8483 | 0.040                    | -0.8720 | 0.040                      | -0.7379 |
| 0.060                       | -0.9513 | 0.060                    | -0.8991 | 0.060                      | -0.8687 |
| 0.080                       | -0.9347 | 0.080                    | -0.9068 | 0.080                      | -0.8115 |
| 0.100                       | -0.9355 | 0.100                    | -0.9161 | 0.100                      | -0.7669 |
| 0.125                       | -0.8270 | 0.125                    | -0.8768 | 0.125                      | -0.7234 |
| 0.150                       | -0.9136 | 0.150                    | -0.8901 | 0.150                      | -0.8064 |
| 0.175                       | -0.8954 | 0.175                    | -0.8835 | 0.175                      | -0.9108 |
| 0.200                       | -0.9748 | 0.200                    | -0.8898 | 0.200                      | -0.8355 |
| 0.250                       | -1.0116 | 0.250                    | -0.9920 | 0.250                      | -0.8785 |
| 0.300                       | -1.0049 | 0.300                    | -0.9997 | 0.300                      | -0.8668 |
| 0.350                       | -0.7839 | 0.350                    | -1.0255 | 0.350                      | -0.6929 |
| 0.400                       | -0.6574 | 0.400                    | -0.6575 | 0.400                      | -0.6087 |
| 0.450                       | -0.5439 | 0.450                    | -0.5377 | 0.450                      | -0.5892 |
| 0.500                       | -0.5189 | 0.500                    | -0.5490 | 0.500                      | -0.5070 |
| 0.550                       | -0.4352 | 0.550                    | -0.5192 | 0.550                      | -0.4473 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.6234 | 0.005 | 0.6472 | 0.005 | 0.5944 |
| 0.010 | 0.4035 | 0.010 | 0.4029 | 0.010 | 0.3060 |

Fight 32 Test point 17

Sweep, deg = 25.1 Mach = 0.75 hp, ft = 35400. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = 0.5 QBAR, lb/ft<sup>2</sup> = 189.5 Rnpu = 1748000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9094  | 0.000                    | 0.9306  | 0.000                      | 0.9064  |
| 0.005                       | 0.1657  | 0.005                    | 0.2250  | 0.005                      | 0.4661  |
| 0.010                       | -0.1120 | 0.010                    | -0.0051 | 0.010                      | 0.1893  |
| 0.020                       | -0.3248 | 0.020                    | -0.2612 | 0.020                      | -0.1266 |
| 0.040                       | -0.4810 | 0.040                    | -0.4259 | 0.040                      | -0.3062 |
| 0.060                       | -0.5375 | 0.060                    | -0.4677 | 0.060                      | -0.3916 |
| 0.080                       | -0.5719 | 0.080                    | -0.5075 | 0.080                      | -0.4208 |
| 0.100                       | -0.5850 | 0.100                    | -0.5228 | 0.100                      | -0.4545 |
| 0.125                       | -0.5524 | 0.125                    | -0.5309 | 0.125                      | -0.4725 |
| 0.150                       | -0.6346 | 0.150                    | -0.5710 | 0.150                      | -0.5029 |
| 0.175                       | -0.6245 | 0.175                    | -0.6120 | 0.175                      | -0.5222 |
| 0.200                       | -0.6910 | 0.200                    | -0.6334 | 0.200                      | -0.5249 |
| 0.250                       | -0.6886 | 0.250                    | -0.7188 | 0.250                      | -0.5694 |
| 0.300                       | -0.6766 | 0.300                    | -0.7030 | 0.300                      | -0.5709 |
| 0.350                       | -0.6296 | 0.350                    | -0.6234 | 0.350                      | -0.5749 |
| 0.400                       | -0.5690 | 0.400                    | -0.6222 | 0.400                      | -0.5481 |
| 0.450                       | -0.5000 | 0.450                    | -0.5484 | 0.450                      | -0.5155 |
| 0.500                       | -0.4843 | 0.500                    | -0.5315 | 0.500                      | -0.4613 |
| 0.550                       | -0.4152 | 0.550                    | -0.5017 | 0.550                      | -0.4178 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3087 | 0.005 | 0.3346 | 0.005 | 0.2452  |
| 0.010 | 0.0406 | 0.010 | 0.0187 | 0.010 | -0.1361 |

Flight 32 Test point 18

Sweep, deg = 25.1 Mach = 0.74 hp, ft = 35500. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.5 QBAR, lb/ft<sup>2</sup> = 187.6 Rnpu = 1737000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9100  | 0.000                    | 0.9271  | 0.000                      | 0.9069  |
| 0.005                       | 0.0613  | 0.005                    | 0.1218  | 0.005                      | 0.3807  |
| 0.010                       | -0.2184 | 0.010                    | -0.1175 | 0.010                      | 0.0913  |
| 0.020                       | -0.4286 | 0.020                    | -0.3618 | 0.020                      | -0.2341 |
| 0.040                       | -0.5707 | 0.040                    | -0.5242 | 0.040                      | -0.3915 |
| 0.060                       | -0.6240 | 0.060                    | -0.5621 | 0.060                      | -0.4852 |
| 0.080                       | -0.6468 | 0.080                    | -0.5840 | 0.080                      | -0.4997 |
| 0.100                       | -0.6485 | 0.100                    | -0.5995 | 0.100                      | -0.5250 |
| 0.125                       | -0.6042 | 0.125                    | -0.5970 | 0.125                      | -0.5361 |
| 0.150                       | -0.6988 | 0.150                    | -0.6395 | 0.150                      | -0.5599 |
| 0.175                       | -0.6875 | 0.175                    | -0.6703 | 0.175                      | -0.5786 |
| 0.200                       | -0.7239 | 0.200                    | -0.6869 | 0.200                      | -0.5756 |
| 0.250                       | -0.7394 | 0.250                    | -0.7719 | 0.250                      | -0.6159 |
| 0.300                       | -0.7130 | 0.300                    | -0.7500 | 0.300                      | -0.6065 |
| 0.350                       | -0.6629 | 0.350                    | -0.6467 | 0.350                      | -0.6071 |
| 0.400                       | -0.5924 | 0.400                    | -0.6451 | 0.400                      | -0.5708 |
| 0.450                       | -0.5061 | 0.450                    | -0.5580 | 0.450                      | -0.5305 |
| 0.500                       | -0.4960 | 0.500                    | -0.5416 | 0.500                      | -0.4709 |
| 0.550                       | -0.4240 | 0.550                    | -0.5028 | 0.550                      | -0.4273 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3943 | 0.005 | 0.4212 | 0.005 | 0.3417  |
| 0.010 | 0.1353 | 0.010 | 0.1274 | 0.010 | -0.0182 |

Flight 32 Test point 19

Sweep, deg = 30.4 Mach = 0.75 hp, ft = 34500. Angle of attack, deg = 3.4  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 196.8 Rnpu = 1810000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7084  | 0.000                    | 0.6967  | 0.000                      | 0.7007  |
| 0.005                       | -0.4936 | 0.005                    | -0.4450 | 0.005                      | -0.1487 |
| 0.010                       | -0.7958 | 0.010                    | -0.7011 | 0.010                      | -0.4855 |
| 0.020                       | -1.0157 | 0.020                    | -0.8985 | 0.020                      | -0.8727 |
| 0.040                       | -1.0245 | 0.040                    | -1.0794 | 0.040                      | -0.9353 |
| 0.060                       | -1.0949 | 0.060                    | -1.0769 | 0.060                      | -0.9809 |
| 0.080                       | -1.0611 | 0.080                    | -1.0521 | 0.080                      | -1.0480 |
| 0.100                       | -1.0328 | 0.100                    | -1.0502 | 0.100                      | -0.9785 |
| 0.125                       | -0.8690 | 0.125                    | -0.9923 | 0.125                      | -0.7126 |
| 0.150                       | -0.9166 | 0.150                    | -0.9632 | 0.150                      | -0.8232 |
| 0.175                       | -0.8640 | 0.175                    | -0.8348 | 0.175                      | -0.8265 |
| 0.200                       | -0.9268 | 0.200                    | -0.8648 | 0.200                      | -0.7718 |
| 0.250                       | -0.8393 | 0.250                    | -0.9215 | 0.250                      | -0.8485 |
| 0.300                       | -0.8492 | 0.300                    | -0.9013 | 0.300                      | -0.6726 |
| 0.350                       | -0.7317 | 0.350                    | -0.6969 | 0.350                      | -0.6583 |
| 0.400                       | -0.6269 | 0.400                    | -0.6519 | 0.400                      | -0.6093 |
| 0.450                       | -0.5317 | 0.450                    | -0.5793 | 0.450                      | -0.5533 |
| 0.500                       | -0.5073 | 0.500                    | -0.5452 | 0.500                      | -0.4794 |
| 0.550                       | -0.4274 | 0.550                    | -0.5022 | 0.550                      | -0.4317 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.6545 | 0.005 | 0.6808 | 0.005 | 0.6441 |
| 0.010 | 0.4742 | 0.010 | 0.4764 | 0.010 | 0.4129 |

Flight 32 Test point 20

Sweep, deg = 30.5 Mach = 0.76 hp, ft = 35500. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 195.4 Rnpu = 1791000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8329  | 0.000                    | 0.8457  | 0.000                      | 0.8220  |
| 0.005                       | 0.1918  | 0.005                    | 0.2296  | 0.005                      | 0.4455  |
| 0.010                       | -0.0590 | 0.010                    | 0.0278  | 0.010                      | 0.2059  |
| 0.020                       | -0.2600 | 0.020                    | -0.2042 | 0.020                      | -0.0853 |
| 0.040                       | -0.3975 | 0.040                    | -0.3586 | 0.040                      | -0.2554 |
| 0.060                       | -0.4522 | 0.060                    | -0.3993 | 0.060                      | -0.3392 |
| 0.080                       | -0.4838 | 0.080                    | -0.4296 | 0.080                      | -0.3654 |
| 0.100                       | -0.4926 | 0.100                    | -0.4495 | 0.100                      | -0.3855 |
| 0.125                       | -0.4751 | 0.125                    | -0.4602 | 0.125                      | -0.4071 |
| 0.150                       | -0.5357 | 0.150                    | -0.4990 | 0.150                      | -0.4242 |
| 0.175                       | -0.5373 | 0.175                    | -0.5255 | 0.175                      | -0.4599 |
| 0.200                       | -0.5898 | 0.200                    | -0.5406 | 0.200                      | -0.4527 |
| 0.250                       | -0.5969 | 0.250                    | -0.6023 | 0.250                      | -0.4970 |
| 0.300                       | -0.5879 | 0.300                    | -0.5883 | 0.300                      | -0.4978 |
| 0.350                       | -0.5608 | 0.350                    | -0.5414 | 0.350                      | -0.5045 |
| 0.400                       | -0.5140 | 0.400                    | -0.5502 | 0.400                      | -0.4860 |
| 0.450                       | -0.4520 | 0.450                    | -0.4845 | 0.450                      | -0.4630 |
| 0.500                       | -0.4404 | 0.500                    | -0.4698 | 0.500                      | -0.4134 |
| 0.550                       | -0.3764 | 0.550                    | -0.4419 | 0.550                      | -0.3851 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2304  | 0.005 | 0.2511  | 0.005 | 0.1694  |
| 0.010 | -0.0407 | 0.010 | -0.0445 | 0.010 | -0.1900 |

Fight 32 Test point 21

Sweep, deg = 30.3 Mach = 0.75 hp, ft = 35800. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 185.8 Rnpu = 1720000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8269  | 0.000                    | 0.8317  | 0.000                      | 0.8192  |
| 0.005                       | 0.0355  | 0.005                    | 0.0800  | 0.005                      | 0.3209  |
| 0.010                       | -0.2239 | 0.010                    | -0.1351 | 0.010                      | 0.0580  |
| 0.020                       | -0.4191 | 0.020                    | -0.3651 | 0.020                      | -0.2318 |
| 0.040                       | -0.5273 | 0.040                    | -0.4927 | 0.040                      | -0.3775 |
| 0.060                       | -0.5620 | 0.060                    | -0.5124 | 0.060                      | -0.4452 |
| 0.080                       | -0.5838 | 0.080                    | -0.5341 | 0.080                      | -0.4584 |
| 0.100                       | -0.5811 | 0.100                    | -0.5445 | 0.100                      | -0.4823 |
| 0.125                       | -0.5428 | 0.125                    | -0.5372 | 0.125                      | -0.4843 |
| 0.150                       | -0.6070 | 0.150                    | -0.5773 | 0.150                      | -0.5016 |
| 0.175                       | -0.6023 | 0.175                    | -0.5919 | 0.175                      | -0.5201 |
| 0.200                       | -0.6446 | 0.200                    | -0.6056 | 0.200                      | -0.5107 |
| 0.250                       | -0.6406 | 0.250                    | -0.6554 | 0.250                      | -0.5440 |
| 0.300                       | -0.6246 | 0.300                    | -0.6355 | 0.300                      | -0.5364 |
| 0.350                       | -0.5857 | 0.350                    | -0.5694 | 0.350                      | -0.5325 |
| 0.400                       | -0.5370 | 0.400                    | -0.5720 | 0.400                      | -0.5058 |
| 0.450                       | -0.4680 | 0.450                    | -0.5006 | 0.450                      | -0.4801 |
| 0.500                       | -0.4496 | 0.500                    | -0.4919 | 0.500                      | -0.4330 |
| 0.550                       | -0.3905 | 0.550                    | -0.4594 | 0.550                      | -0.3981 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3524 | 0.005 | 0.3810 | 0.005 | 0.3024  |
| 0.010 | 0.1112 | 0.010 | 0.1004 | 0.010 | -0.0304 |



Fight 32 Test point 22

Sweep, deg = 35.5 Mach = 0.75 hp, ft = 34900. Angle of attack, deg = 3.7  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 195.4 Rnpu = 1801000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.5693  | 0.000                    | 0.5221  | 0.000                      | 0.5344  |
| 0.005                       | -0.6586 | 0.005                    | -0.6560 | 0.005                      | -0.3618 |
| 0.010                       | -0.9351 | 0.010                    | -0.9029 | 0.010                      | -0.6797 |
| 0.020                       | -1.1891 | 0.020                    | -1.0287 | 0.020                      | -1.0436 |
| 0.040                       | -1.0829 | 0.040                    | -1.1684 | 0.040                      | -1.0154 |
| 0.060                       | -1.1116 | 0.060                    | -1.1709 | 0.060                      | -0.9913 |
| 0.080                       | -1.0047 | 0.080                    | -1.0988 | 0.080                      | -1.0300 |
| 0.100                       | -0.9358 | 0.100                    | -0.8793 | 0.100                      | -0.7453 |
| 0.125                       | -0.7178 | 0.125                    | -0.8514 | 0.125                      | -0.8049 |
| 0.150                       | -0.8318 | 0.150                    | -0.8397 | 0.150                      | -0.8908 |
| 0.175                       | -0.7994 | 0.175                    | -0.7967 | 0.175                      | -0.7730 |
| 0.200                       | -0.8240 | 0.200                    | -0.7947 | 0.200                      | -0.6706 |
| 0.250                       | -0.7702 | 0.250                    | -0.7844 | 0.250                      | -0.6985 |
| 0.300                       | -0.7010 | 0.300                    | -0.7642 | 0.300                      | -0.6374 |
| 0.350                       | -0.6542 | 0.350                    | -0.6365 | 0.350                      | -0.6008 |
| 0.400                       | -0.5729 | 0.400                    | -0.6086 | 0.400                      | -0.5488 |
| 0.450                       | -0.4965 | 0.450                    | -0.5319 | 0.450                      | -0.4994 |
| 0.500                       | -0.4701 | 0.500                    | -0.4961 | 0.500                      | -0.4363 |
| 0.550                       | -0.3936 | 0.550                    | -0.4533 | 0.550                      | -0.3947 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.6382 | 0.005 | 0.6594 | 0.005 | 0.6285 |
| 0.010 | 0.4926 | 0.010 | 0.5008 | 0.010 | 0.4541 |

Flight 32 Test point 23

Sweep, deg = 35.6 Mach = 0.75 hp, ft = 34700. Angle of attack, deg = -0.2  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 198.8 Rnpu = 1824000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7391  | 0.000                    | 0.7386  | 0.000                      | 0.7144  |
| 0.005                       | 0.2164  | 0.005                    | 0.2412  | 0.005                      | 0.4300  |
| 0.010                       | -0.0147 | 0.010                    | 0.0712  | 0.010                      | 0.2176  |
| 0.020                       | -0.1995 | 0.020                    | -0.1474 | 0.020                      | -0.0298 |
| 0.040                       | -0.3039 | 0.040                    | -0.2712 | 0.040                      | -0.1778 |
| 0.060                       | -0.3504 | 0.060                    | -0.3040 | 0.060                      | -0.2520 |
| 0.080                       | -0.3924 | 0.080                    | -0.3429 | 0.080                      | -0.2812 |
| 0.100                       | -0.3993 | 0.100                    | -0.3535 | 0.100                      | -0.2998 |
| 0.125                       | -0.3878 | 0.125                    | -0.3693 | 0.125                      | -0.3182 |
| 0.150                       | -0.4338 | 0.150                    | -0.3987 | 0.150                      | -0.3408 |
| 0.175                       | -0.4404 | 0.175                    | -0.4131 | 0.175                      | -0.3666 |
| 0.200                       | -0.4769 | 0.200                    | -0.4375 | 0.200                      | -0.3619 |
| 0.250                       | -0.4831 | 0.250                    | -0.4774 | 0.250                      | -0.4016 |
| 0.300                       | -0.4760 | 0.300                    | -0.4654 | 0.300                      | -0.4007 |
| 0.350                       | -0.4582 | 0.350                    | -0.4369 | 0.350                      | -0.4069 |
| 0.400                       | -0.4273 | 0.400                    | -0.4392 | 0.400                      | -0.3977 |
| 0.450                       | -0.3771 | 0.450                    | -0.3999 | 0.450                      | -0.3824 |
| 0.500                       | -0.3847 | 0.500                    | -0.3993 | 0.500                      | -0.3550 |
| 0.550                       | -0.3303 | 0.550                    | -0.3894 | 0.550                      | -0.3407 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.1324  | 0.005 | 0.1456  | 0.005 | 0.0486  |
| 0.010 | -0.1134 | 0.010 | -0.1261 | 0.010 | -0.2816 |

Fight 32 Test point 24

Sweep, deg = 35.5 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 2.9  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 224.4 Rnpu = 1950000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.6800  | 0.000                    | 0.6462  | 0.000                      | 0.6392  |
| 0.005                       | -0.3185 | 0.005                    | -0.3302 | 0.005                      | -0.0823 |
| 0.010                       | -0.5881 | 0.010                    | -0.5413 | 0.010                      | -0.3801 |
| 0.020                       | -0.8403 | 0.020                    | -0.7219 | 0.020                      | -0.7225 |
| 0.040                       | -0.7976 | 0.040                    | -0.8927 | 0.040                      | -0.7833 |
| 0.060                       | -0.8452 | 0.060                    | -0.8519 | 0.060                      | -0.8398 |
| 0.080                       | -0.8700 | 0.080                    | -0.8614 | 0.080                      | -0.8834 |
| 0.100                       | -0.8253 | 0.100                    | -0.8699 | 0.100                      | -0.8841 |
| 0.125                       | -0.7332 | 0.125                    | -0.8428 | 0.125                      | -0.8193 |
| 0.150                       | -0.8248 | 0.150                    | -0.8245 | 0.150                      | -0.7584 |
| 0.175                       | -0.8118 | 0.175                    | -0.8152 | 0.175                      | -0.8002 |
| 0.200                       | -0.8696 | 0.200                    | -0.8316 | 0.200                      | -0.7513 |
| 0.250                       | -0.8946 | 0.250                    | -0.9093 | 0.250                      | -0.8314 |
| 0.300                       | -0.7634 | 0.300                    | -0.9218 | 0.300                      | -0.8411 |
| 0.350                       | -0.7609 | 0.350                    | -0.9200 | 0.350                      | -0.8412 |
| 0.400                       | -0.7361 | 0.400                    | -0.7677 | 0.400                      | -0.4562 |
| 0.450                       | -0.5252 | 0.450                    | -0.4556 | 0.450                      | -0.4414 |
| 0.500                       | -0.4615 | 0.500                    | -0.4433 | 0.500                      | -0.4040 |
| 0.550                       | -0.3929 | 0.550                    | -0.4266 | 0.550                      | -0.3787 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5510 | 0.005 | 0.5668 | 0.005 | 0.5393 |
| 0.010 | 0.3698 | 0.010 | 0.3784 | 0.010 | 0.3311 |

Fight 32 Test point 25

Sweep, deg = 35.6 Mach = 0.80 hp, ft = 35600. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 214.0 Rnpu = 1870000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7568  | 0.000                    | 0.7504  | 0.000                      | 0.7310  |
| 0.005                       | 0.1443  | 0.005                    | 0.1539  | 0.005                      | 0.3507  |
| 0.010                       | -0.0977 | 0.010                    | -0.0298 | 0.010                      | 0.1197  |
| 0.020                       | -0.2917 | 0.020                    | -0.2448 | 0.020                      | -0.1290 |
| 0.040                       | -0.3940 | 0.040                    | -0.3653 | 0.040                      | -0.2749 |
| 0.060                       | -0.4408 | 0.060                    | -0.4037 | 0.060                      | -0.3482 |
| 0.080                       | -0.4695 | 0.080                    | -0.4378 | 0.080                      | -0.3753 |
| 0.100                       | -0.4872 | 0.100                    | -0.4568 | 0.100                      | -0.4019 |
| 0.125                       | -0.4632 | 0.125                    | -0.4595 | 0.125                      | -0.4163 |
| 0.150                       | -0.5209 | 0.150                    | -0.5025 | 0.150                      | -0.4338 |
| 0.175                       | -0.5104 | 0.175                    | -0.5165 | 0.175                      | -0.4640 |
| 0.200                       | -0.5780 | 0.200                    | -0.5316 | 0.200                      | -0.4549 |
| 0.250                       | -0.5745 | 0.250                    | -0.6138 | 0.250                      | -0.4961 |
| 0.300                       | -0.5747 | 0.300                    | -0.5712 | 0.300                      | -0.4911 |
| 0.350                       | -0.5609 | 0.350                    | -0.5404 | 0.350                      | -0.4942 |
| 0.400                       | -0.4952 | 0.400                    | -0.5217 | 0.400                      | -0.4704 |
| 0.450                       | -0.4313 | 0.450                    | -0.4595 | 0.450                      | -0.4388 |
| 0.500                       | -0.4243 | 0.500                    | -0.4452 | 0.500                      | -0.3902 |
| 0.550                       | -0.3691 | 0.550                    | -0.4228 | 0.550                      | -0.3599 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2389  | 0.005 | 0.2571  | 0.005 | 0.1923  |
| 0.010 | -0.0009 | 0.010 | -0.0053 | 0.010 | -0.1180 |

Fight 32 Test point 26

Sweep, deg = 29.7 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 2.3  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 224.2 Rnpu = 1945000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8232  | 0.000                    | 0.8209  | 0.000                      | 0.8007  |
| 0.005                       | -0.0990 | 0.005                    | -0.0603 | 0.005                      | 0.1800  |
| 0.010                       | -0.3829 | 0.010                    | -0.2896 | 0.010                      | -0.1149 |
| 0.020                       | -0.5878 | 0.020                    | -0.5188 | 0.020                      | -0.4461 |
| 0.040                       | -0.6784 | 0.040                    | -0.6477 | 0.040                      | -0.5837 |
| 0.060                       | -0.7550 | 0.060                    | -0.7309 | 0.060                      | -0.7159 |
| 0.080                       | -0.7791 | 0.080                    | -0.7428 | 0.080                      | -0.6975 |
| 0.100                       | -0.7533 | 0.100                    | -0.7575 | 0.100                      | -0.7103 |
| 0.125                       | -0.6969 | 0.125                    | -0.7452 | 0.125                      | -0.6206 |
| 0.150                       | -0.7760 | 0.150                    | -0.7648 | 0.150                      | -0.6900 |
| 0.175                       | -0.7853 | 0.175                    | -0.7774 | 0.175                      | -0.7852 |
| 0.200                       | -0.8502 | 0.200                    | -0.7832 | 0.200                      | -0.7488 |
| 0.250                       | -0.9033 | 0.250                    | -0.8954 | 0.250                      | -0.8013 |
| 0.300                       | -0.9675 | 0.300                    | -0.9252 | 0.300                      | -0.8444 |
| 0.350                       | -0.9311 | 0.350                    | -0.9613 | 0.350                      | -0.9044 |
| 0.400                       | -0.7592 | 0.400                    | -1.0249 | 0.400                      | -0.9347 |
| 0.450                       | -0.7547 | 0.450                    | -1.0192 | 0.450                      | -0.9866 |
| 0.500                       | -0.5106 | 0.500                    | -0.7005 | 0.500                      | -0.5632 |
| 0.550                       | -0.3997 | 0.550                    | -0.4127 | 0.550                      | -0.3483 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5098 | 0.005 | 0.5251 | 0.005 | 0.4807 |
| 0.010 | 0.2826 | 0.010 | 0.2809 | 0.010 | 0.1980 |

Fight 32 Test point 27

Sweep, deg = 29.7 Mach = 0.80 hp, ft = 34900. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 222.6 Rnpu = 1939000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8538  | 0.000                    | 0.8535  | 0.000                      | 0.8352  |
| 0.005                       | 0.1547  | 0.005                    | 0.1915  | 0.005                      | 0.3997  |
| 0.010                       | -0.1075 | 0.010                    | -0.0270 | 0.010                      | 0.1455  |
| 0.020                       | -0.3201 | 0.020                    | -0.2680 | 0.020                      | -0.1580 |
| 0.040                       | -0.4522 | 0.040                    | -0.4234 | 0.040                      | -0.3283 |
| 0.060                       | -0.5172 | 0.060                    | -0.4642 | 0.060                      | -0.4137 |
| 0.080                       | -0.5516 | 0.080                    | -0.4943 | 0.080                      | -0.4406 |
| 0.100                       | -0.5854 | 0.100                    | -0.5464 | 0.100                      | -0.4730 |
| 0.125                       | -0.5360 | 0.125                    | -0.5076 | 0.125                      | -0.5257 |
| 0.150                       | -0.6255 | 0.150                    | -0.5748 | 0.150                      | -0.4948 |
| 0.175                       | -0.5770 | 0.175                    | -0.6321 | 0.175                      | -0.5661 |
| 0.200                       | -0.6578 | 0.200                    | -0.6432 | 0.200                      | -0.5529 |
| 0.250                       | -0.7348 | 0.250                    | -0.7388 | 0.250                      | -0.6203 |
| 0.300                       | -0.7418 | 0.300                    | -0.7724 | 0.300                      | -0.6163 |
| 0.350                       | -0.7138 | 0.350                    | -0.7958 | 0.350                      | -0.7294 |
| 0.400                       | -0.6980 | 0.400                    | -0.8260 | 0.400                      | -0.5181 |
| 0.450                       | -0.4951 | 0.450                    | -0.4685 | 0.450                      | -0.4774 |
| 0.500                       | -0.4664 | 0.500                    | -0.4860 | 0.500                      | -0.4437 |
| 0.550                       | -0.4040 | 0.550                    | -0.4636 | 0.550                      | -0.4039 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.3074 | 0.005 | 0.3245 | 0.005 | 0.2672  |
| 0.010         | 0.0450 | 0.010 | 0.0352 | 0.010 | -0.0802 |

Fight 32 Test point 28

Sweep, deg = 29.7 Mach = 0.80 hp, ft = 35200. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 222.1 Rnpu = 1929000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8387  | 0.000                    | 0.8434  | 0.000                      | 0.8191  |
| 0.005                       | -0.0035 | 0.005                    | 0.0356  | 0.005                      | 0.2659  |
| 0.010                       | -0.2775 | 0.010                    | -0.1908 | 0.010                      | -0.0186 |
| 0.020                       | -0.4895 | 0.020                    | -0.4213 | 0.020                      | -0.3284 |
| 0.040                       | -0.6177 | 0.040                    | -0.5761 | 0.040                      | -0.4878 |
| 0.060                       | -0.6258 | 0.060                    | -0.6308 | 0.060                      | -0.5894 |
| 0.080                       | -0.7030 | 0.080                    | -0.6526 | 0.080                      | -0.5920 |
| 0.100                       | -0.6844 | 0.100                    | -0.6641 | 0.100                      | -0.5513 |
| 0.125                       | -0.6473 | 0.125                    | -0.6711 | 0.125                      | -0.5773 |
| 0.150                       | -0.7194 | 0.150                    | -0.6765 | 0.150                      | -0.6813 |
| 0.175                       | -0.7282 | 0.175                    | -0.7063 | 0.175                      | -0.7375 |
| 0.200                       | -0.7875 | 0.200                    | -0.7228 | 0.200                      | -0.7011 |
| 0.250                       | -0.8629 | 0.250                    | -0.8403 | 0.250                      | -0.7484 |
| 0.300                       | -0.8889 | 0.300                    | -0.8667 | 0.300                      | -0.7802 |
| 0.350                       | -0.7358 | 0.350                    | -0.9061 | 0.350                      | -0.8284 |
| 0.400                       | -0.7712 | 0.400                    | -0.9662 | 0.400                      | -0.8708 |
| 0.450                       | -0.7480 | 0.450                    | -0.9562 | 0.450                      | -0.8911 |
| 0.500                       | -0.4709 | 0.500                    | -0.4772 | 0.500                      | -0.3604 |
| 0.550                       | -0.4017 | 0.550                    | -0.4035 | 0.550                      | -0.3535 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4458 | 0.005 | 0.4599 | 0.005 | 0.4100 |
| 0.010 | 0.1986 | 0.010 | 0.1977 | 0.010 | 0.1037 |

Fight 32 Test point 29

Sweep, deg = 25.0 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 223.6 Rnpu = 1942000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9243  | 0.000                    | 0.9365  | 0.000                      | 0.9141  |
| 0.005                       | 0.0605  | 0.005                    | 0.1238  | 0.005                      | 0.3592  |
| 0.010                       | -0.2244 | 0.010                    | -0.1207 | 0.010                      | 0.0677  |
| 0.020                       | -0.4347 | 0.020                    | -0.3722 | 0.020                      | -0.2733 |
| 0.040                       | -0.6300 | 0.040                    | -0.5464 | 0.040                      | -0.4452 |
| 0.060                       | -0.6643 | 0.060                    | -0.6121 | 0.060                      | -0.5613 |
| 0.080                       | -0.7274 | 0.080                    | -0.6404 | 0.080                      | -0.5849 |
| 0.100                       | -0.7084 | 0.100                    | -0.6700 | 0.100                      | -0.5706 |
| 0.125                       | -0.6684 | 0.125                    | -0.6787 | 0.125                      | -0.5673 |
| 0.150                       | -0.7559 | 0.150                    | -0.6970 | 0.150                      | -0.6657 |
| 0.175                       | -0.7672 | 0.175                    | -0.7273 | 0.175                      | -0.7476 |
| 0.200                       | -0.8446 | 0.200                    | -0.7531 | 0.200                      | -0.7074 |
| 0.250                       | -0.9143 | 0.250                    | -0.8648 | 0.250                      | -0.7578 |
| 0.300                       | -0.9812 | 0.300                    | -0.9116 | 0.300                      | -0.8066 |
| 0.350                       | -0.9581 | 0.350                    | -0.9590 | 0.350                      | -0.8937 |
| 0.400                       | -0.9648 | 0.400                    | -1.0277 | 0.400                      | -0.9287 |
| 0.450                       | -0.9716 | 0.450                    | -1.0357 | 0.450                      | -0.9852 |
| 0.500                       | -0.8226 | 0.500                    | -1.0939 | 0.500                      | -1.0000 |
| 0.550                       | -0.4187 | 0.550                    | -0.4874 | 0.550                      | -0.4380 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| x/c           | Cp     | x/c   | Cp     | x/c   | Cp     |
| 0.005         | 0.4748 | 0.005 | 0.4916 | 0.005 | 0.4314 |
| 0.010         | 0.2180 | 0.010 | 0.2053 | 0.010 | 0.0948 |



Fight 32 Test point 30

Sweep, deg = 25.0 Mach = 0.81 hp, ft = 34600. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 230.9 Rnpu = 1991000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9323  | 0.000                    | 0.9456  | 0.000                      | 0.9289  |
| 0.005                       | 0.2220  | 0.005                    | 0.2833  | 0.005                      | 0.4934  |
| 0.010                       | -0.0540 | 0.010                    | 0.0487  | 0.010                      | 0.2230  |
| 0.020                       | -0.2775 | 0.020                    | -0.2067 | 0.020                      | -0.0961 |
| 0.040                       | -0.4490 | 0.040                    | -0.3972 | 0.040                      | -0.2908 |
| 0.060                       | -0.5264 | 0.060                    | -0.4552 | 0.060                      | -0.3996 |
| 0.080                       | -0.5255 | 0.080                    | -0.5020 | 0.080                      | -0.4335 |
| 0.100                       | -0.6078 | 0.100                    | -0.5257 | 0.100                      | -0.4557 |
| 0.125                       | -0.5868 | 0.125                    | -0.5839 | 0.125                      | -0.5029 |
| 0.150                       | -0.6388 | 0.150                    | -0.5618 | 0.150                      | -0.5933 |
| 0.175                       | -0.6784 | 0.175                    | -0.6361 | 0.175                      | -0.6176 |
| 0.200                       | -0.7435 | 0.200                    | -0.6773 | 0.200                      | -0.5572 |
| 0.250                       | -0.8278 | 0.250                    | -0.7941 | 0.250                      | -0.6843 |
| 0.300                       | -0.8792 | 0.300                    | -0.8272 | 0.300                      | -0.7307 |
| 0.350                       | -0.8807 | 0.350                    | -0.8801 | 0.350                      | -0.7985 |
| 0.400                       | -0.8862 | 0.400                    | -0.9544 | 0.400                      | -0.8363 |
| 0.450                       | -0.7530 | 0.450                    | -0.9516 | 0.450                      | -0.9013 |
| 0.500                       | -0.7989 | 0.500                    | -1.0138 | 0.500                      | -0.9248 |
| 0.550                       | -0.4068 | 0.550                    | -0.6121 | 0.550                      | -0.4745 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3396 | 0.005 | 0.3573 | 0.005 | 0.2978  |
| 0.010 | 0.0607 | 0.010 | 0.0438 | 0.010 | -0.0834 |

Fight 32 Test point 31

Sweep, deg = 25.0 Mach = 0.80 hp, ft = 34400. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 230.4 Rnpu = 1992000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9262  | 0.000                    | 0.9390  | 0.000                      | 0.9196  |
| 0.005                       | 0.0894  | 0.005                    | 0.1507  | 0.005                      | 0.3827  |
| 0.010                       | -0.1916 | 0.010                    | -0.0921 | 0.010                      | 0.0968  |
| 0.020                       | -0.4073 | 0.020                    | -0.3431 | 0.020                      | -0.2420 |
| 0.040                       | -0.5975 | 0.040                    | -0.5300 | 0.040                      | -0.4187 |
| 0.060                       | -0.6419 | 0.060                    | -0.5951 | 0.060                      | -0.5274 |
| 0.080                       | -0.7170 | 0.080                    | -0.6307 | 0.080                      | -0.5558 |
| 0.100                       | -0.6684 | 0.100                    | -0.6505 | 0.100                      | -0.5423 |
| 0.125                       | -0.6639 | 0.125                    | -0.6453 | 0.125                      | -0.5613 |
| 0.150                       | -0.7415 | 0.150                    | -0.6724 | 0.150                      | -0.6507 |
| 0.175                       | -0.7546 | 0.175                    | -0.7022 | 0.175                      | -0.7348 |
| 0.200                       | -0.8350 | 0.200                    | -0.7339 | 0.200                      | -0.6864 |
| 0.250                       | -0.9058 | 0.250                    | -0.8487 | 0.250                      | -0.7415 |
| 0.300                       | -0.9642 | 0.300                    | -0.9026 | 0.300                      | -0.7964 |
| 0.350                       | -0.9570 | 0.350                    | -0.9440 | 0.350                      | -0.8815 |
| 0.400                       | -0.9585 | 0.400                    | -1.0252 | 0.400                      | -0.9158 |
| 0.450                       | -0.9549 | 0.450                    | -1.0286 | 0.450                      | -0.9748 |
| 0.500                       | -0.7543 | 0.500                    | -1.0852 | 0.500                      | -0.9844 |
| 0.550                       | -0.4083 | 0.550                    | -0.5004 | 0.550                      | -0.4584 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.4514 | 0.005 | 0.4663 | 0.005 | 0.4119 |
| 0.010         | 0.1943 | 0.010 | 0.1789 | 0.010 | 0.0631 |

Fight 32 Test point 32

Sweep, deg = 20.1 Mach = 0.80 hp, ft = 35100. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 221.4 Rnpu = 1920000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9894  | 0.000                    | 1.0176  | 0.000                      | 1.0011  |
| 0.005                       | 0.1131  | 0.005                    | 0.2023  | 0.005                      | 0.4444  |
| 0.010                       | -0.1749 | 0.010                    | -0.0562 | 0.010                      | 0.1503  |
| 0.020                       | -0.3954 | 0.020                    | -0.3200 | 0.020                      | -0.2077 |
| 0.040                       | -0.6092 | 0.040                    | -0.5182 | 0.040                      | -0.3969 |
| 0.060                       | -0.6734 | 0.060                    | -0.5796 | 0.060                      | -0.5217 |
| 0.080                       | -0.7016 | 0.080                    | -0.6157 | 0.080                      | -0.5563 |
| 0.100                       | -0.7308 | 0.100                    | -0.6539 | 0.100                      | -0.5680 |
| 0.125                       | -0.6935 | 0.125                    | -0.6610 | 0.125                      | -0.5495 |
| 0.150                       | -0.7801 | 0.150                    | -0.7076 | 0.150                      | -0.6349 |
| 0.175                       | -0.7910 | 0.175                    | -0.7346 | 0.175                      | -0.7126 |
| 0.200                       | -0.8649 | 0.200                    | -0.7642 | 0.200                      | -0.7166 |
| 0.250                       | -0.9514 | 0.250                    | -0.8675 | 0.250                      | -0.7600 |
| 0.300                       | -1.0298 | 0.300                    | -0.9229 | 0.300                      | -0.8200 |
| 0.350                       | -1.0323 | 0.350                    | -0.9781 | 0.350                      | -0.8985 |
| 0.400                       | -1.0366 | 0.400                    | -1.0579 | 0.400                      | -0.9355 |
| 0.450                       | -1.0317 | 0.450                    | -1.0700 | 0.450                      | -0.9871 |
| 0.500                       | -0.8671 | 0.500                    | -0.9323 | 0.500                      | -1.0136 |
| 0.550                       | -0.4435 | 0.550                    | -0.4522 | 0.550                      | -0.5362 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5011 | 0.005 | 0.5116 | 0.005 | 0.4467 |
| 0.010 | 0.2319 | 0.010 | 0.2098 | 0.010 | 0.0775 |

Fight 32 Test point 33

Sweep, deg = 20.0 Mach = 0.81 hp, ft = 35100. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 224.4 Rnpu = 1934000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9968  | 0.000                    | 1.0274  | 0.000                      | 1.0052  |
| 0.005                       | 0.2993  | 0.005                    | 0.3736  | 0.005                      | 0.5876  |
| 0.010                       | 0.0183  | 0.010                    | 0.1326  | 0.010                      | 0.3177  |
| 0.020                       | -0.2126 | 0.020                    | -0.1392 | 0.020                      | -0.0257 |
| 0.040                       | -0.4115 | 0.040                    | -0.3370 | 0.040                      | -0.2320 |
| 0.060                       | -0.5042 | 0.060                    | -0.4136 | 0.060                      | -0.3429 |
| 0.080                       | -0.5291 | 0.080                    | -0.4625 | 0.080                      | -0.3874 |
| 0.100                       | -0.5926 | 0.100                    | -0.4959 | 0.100                      | -0.4235 |
| 0.125                       | -0.5809 | 0.125                    | -0.5449 | 0.125                      | -0.4599 |
| 0.150                       | -0.6422 | 0.150                    | -0.5464 | 0.150                      | -0.5470 |
| 0.175                       | -0.6775 | 0.175                    | -0.6129 | 0.175                      | -0.5703 |
| 0.200                       | -0.7572 | 0.200                    | -0.6647 | 0.200                      | -0.5504 |
| 0.250                       | -0.8460 | 0.250                    | -0.7685 | 0.250                      | -0.6621 |
| 0.300                       | -0.9124 | 0.300                    | -0.8303 | 0.300                      | -0.7324 |
| 0.350                       | -0.9187 | 0.350                    | -0.8809 | 0.350                      | -0.8001 |
| 0.400                       | -0.9183 | 0.400                    | -0.9674 | 0.400                      | -0.8425 |
| 0.450                       | -0.9348 | 0.450                    | -0.9796 | 0.450                      | -0.9054 |
| 0.500                       | -1.0445 | 0.500                    | -1.0417 | 0.500                      | -0.9324 |
| 0.550                       | -0.4998 | 0.550                    | -0.5550 | 0.550                      | -0.6940 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3472 | 0.005 | 0.3579 | 0.005 | 0.2888  |
| 0.010 | 0.0518 | 0.010 | 0.0179 | 0.010 | -0.1201 |

Fight 32 Test point 34

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 34500. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 228.0 Rnpu = 1975000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9957  | 0.000                    | 1.0169  | 0.000                      | 1.0001  |
| 0.005                       | 0.1618  | 0.005                    | 0.2453  | 0.005                      | 0.4836  |
| 0.010                       | -0.1245 | 0.010                    | -0.0105 | 0.010                      | 0.1907  |
| 0.020                       | -0.3529 | 0.020                    | -0.2744 | 0.020                      | -0.1614 |
| 0.040                       | -0.5587 | 0.040                    | -0.4776 | 0.040                      | -0.3546 |
| 0.060                       | -0.6358 | 0.060                    | -0.5386 | 0.060                      | -0.4718 |
| 0.080                       | -0.6876 | 0.080                    | -0.5998 | 0.080                      | -0.5021 |
| 0.100                       | -0.6699 | 0.100                    | -0.6243 | 0.100                      | -0.5178 |
| 0.125                       | -0.6624 | 0.125                    | -0.6154 | 0.125                      | -0.5306 |
| 0.150                       | -0.7416 | 0.150                    | -0.6679 | 0.150                      | -0.6123 |
| 0.175                       | -0.7581 | 0.175                    | -0.6944 | 0.175                      | -0.6937 |
| 0.200                       | -0.8416 | 0.200                    | -0.7328 | 0.200                      | -0.6753 |
| 0.250                       | -0.9241 | 0.250                    | -0.8435 | 0.250                      | -0.7246 |
| 0.300                       | -1.0036 | 0.300                    | -0.9053 | 0.300                      | -0.7919 |
| 0.350                       | -0.9992 | 0.350                    | -0.9564 | 0.350                      | -0.8690 |
| 0.400                       | -0.9983 | 0.400                    | -1.0395 | 0.400                      | -0.9105 |
| 0.450                       | -0.9999 | 0.450                    | -1.0447 | 0.450                      | -0.9697 |
| 0.500                       | -1.0832 | 0.500                    | -1.0976 | 0.500                      | -0.9889 |
| 0.550                       | -0.4420 | 0.550                    | -0.4637 | 0.550                      | -0.5659 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4646 | 0.005 | 0.4746 | 0.005 | 0.4072 |
| 0.010 | 0.1906 | 0.010 | 0.1599 | 0.010 | 0.0286 |

Fight 32 Test point 35

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 30000. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 284.5 Rnpu = 2410000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9967  | 0.000                    | 1.0213  | 0.000                      | 0.9997  |
| 0.005                       | 0.1800  | 0.005                    | 0.2648  | 0.005                      | 0.4980  |
| 0.010                       | -0.1108 | 0.010                    | 0.0083  | 0.010                      | 0.2109  |
| 0.020                       | -0.3344 | 0.020                    | -0.2573 | 0.020                      | -0.1410 |
| 0.040                       | -0.5455 | 0.040                    | -0.4607 | 0.040                      | -0.3326 |
| 0.060                       | -0.6222 | 0.060                    | -0.5275 | 0.060                      | -0.4534 |
| 0.080                       | -0.6735 | 0.080                    | -0.5921 | 0.080                      | -0.4891 |
| 0.100                       | -0.6651 | 0.100                    | -0.6122 | 0.100                      | -0.5052 |
| 0.125                       | -0.6547 | 0.125                    | -0.6062 | 0.125                      | -0.5226 |
| 0.150                       | -0.7381 | 0.150                    | -0.6559 | 0.150                      | -0.6024 |
| 0.175                       | -0.7521 | 0.175                    | -0.6832 | 0.175                      | -0.6844 |
| 0.200                       | -0.8289 | 0.200                    | -0.7259 | 0.200                      | -0.6719 |
| 0.250                       | -0.9163 | 0.250                    | -0.8343 | 0.250                      | -0.7139 |
| 0.300                       | -1.0019 | 0.300                    | -0.9010 | 0.300                      | -0.7896 |
| 0.350                       | -1.0020 | 0.350                    | -0.9554 | 0.350                      | -0.8682 |
| 0.400                       | -1.0100 | 0.400                    | -1.0267 | 0.400                      | -0.9064 |
| 0.450                       | -0.9988 | 0.450                    | -1.0451 | 0.450                      | -0.9599 |
| 0.500                       | -1.0593 | 0.500                    | -1.0937 | 0.500                      | -0.9866 |
| 0.550                       | -0.4277 | 0.550                    | -0.4425 | 0.550                      | -0.7022 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.4586 | 0.005 | 0.4606 | 0.005 | 0.3939 |
| 0.010         | 0.1743 | 0.010 | 0.1409 | 0.010 | 0.0110 |

Fight 32 Test point 36

Sweep, deg = 20.1 Mach = 0.80 hp, ft = 30000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -5.3 QBAR, lb/ft<sup>2</sup> = 283.3 Rnp<sub>cr</sub> = 2403000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0571  | 0.000                    | 1.0877  | 0.000                      | 1.0665  |
| 0.005                       | 0.3154  | 0.005                    | 0.4171  | 0.005                      | 0.6467  |
| 0.010                       | 0.0269  | 0.010                    | 0.1588  | 0.010                      | 0.3658  |
| 0.020                       | -0.2085 | 0.020                    | -0.1195 | 0.020                      | 0.0146  |
| 0.040                       | -0.4220 | 0.040                    | -0.3214 | 0.040                      | -0.1965 |
| 0.060                       | -0.5056 | 0.060                    | -0.3987 | 0.060                      | -0.3180 |
| 0.080                       | -0.5985 | 0.080                    | -0.4605 | 0.080                      | -0.3667 |
| 0.100                       | -0.5947 | 0.100                    | -0.4924 | 0.100                      | -0.4004 |
| 0.125                       | -0.5734 | 0.125                    | -0.5358 | 0.125                      | -0.4355 |
| 0.150                       | -0.6635 | 0.150                    | -0.5463 | 0.150                      | -0.5169 |
| 0.175                       | -0.6825 | 0.175                    | -0.5999 | 0.175                      | -0.5620 |
| 0.200                       | -0.7689 | 0.200                    | -0.6629 | 0.200                      | -0.5416 |
| 0.250                       | -0.8643 | 0.250                    | -0.7715 | 0.250                      | -0.6399 |
| 0.300                       | -0.9474 | 0.300                    | -0.8327 | 0.300                      | -0.7141 |
| 0.350                       | -0.9600 | 0.350                    | -0.8859 | 0.350                      | -0.7912 |
| 0.400                       | -0.9791 | 0.400                    | -0.9801 | 0.400                      | -0.8320 |
| 0.450                       | -0.9931 | 0.450                    | -0.9939 | 0.450                      | -0.8736 |
| 0.500                       | -1.0257 | 0.500                    | -1.0506 | 0.500                      | -0.9052 |
| 0.550                       | -0.4068 | 0.550                    | -0.5965 | 0.550                      | -0.9362 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.4077 | 0.005 | 0.4075 | 0.005 | 0.3327  |
| 0.010         | 0.1115 | 0.010 | 0.0600 | 0.010 | -0.0939 |

Fight 32 Test point 37

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 31900. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 259.0 Rnpu = 2214000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9965  | 0.000                    | 1.0196  | 0.000                      | 1.0004  |
| 0.005                       | 0.2641  | 0.005                    | 0.3473  | 0.005                      | 0.5682  |
| 0.010                       | -0.0161 | 0.010                    | 0.0961  | 0.010                      | 0.2902  |
| 0.020                       | -0.2521 | 0.020                    | -0.1759 | 0.020                      | -0.0531 |
| 0.040                       | -0.4435 | 0.040                    | -0.3765 | 0.040                      | -0.2538 |
| 0.060                       | -0.5259 | 0.060                    | -0.4470 | 0.060                      | -0.3746 |
| 0.080                       | -0.5620 | 0.080                    | -0.4994 | 0.080                      | -0.4203 |
| 0.100                       | -0.6233 | 0.100                    | -0.5208 | 0.100                      | -0.4432 |
| 0.125                       | -0.6008 | 0.125                    | -0.5820 | 0.125                      | -0.4801 |
| 0.150                       | -0.6776 | 0.150                    | -0.5649 | 0.150                      | -0.5633 |
| 0.175                       | -0.6974 | 0.175                    | -0.6317 | 0.175                      | -0.6222 |
| 0.200                       | -0.7800 | 0.200                    | -0.6866 | 0.200                      | -0.5583 |
| 0.250                       | -0.8618 | 0.250                    | -0.7901 | 0.250                      | -0.6817 |
| 0.300                       | -0.9356 | 0.300                    | -0.8483 | 0.300                      | -0.7472 |
| 0.350                       | -0.9409 | 0.350                    | -0.9028 | 0.350                      | -0.8220 |
| 0.400                       | -0.9379 | 0.400                    | -0.9823 | 0.400                      | -0.8609 |
| 0.450                       | -0.9549 | 0.450                    | -1.0013 | 0.450                      | -0.9210 |
| 0.500                       | -1.0618 | 0.500                    | -1.0611 | 0.500                      | -0.9433 |
| 0.550                       | -0.5033 | 0.550                    | -0.5593 | 0.550                      | -0.7541 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.3697 | 0.005 | 0.3769 | 0.005 | 0.3095  |
| 0.010         | 0.0752 | 0.010 | 0.0430 | 0.010 | -0.0991 |



Fight 32 Test point 38

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 32700. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 247.8 Rnpu = 2135000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0457  | 0.000                    | 1.0791  | 0.000                      | 1.0556  |
| 0.005                       | 0.3713  | 0.005                    | 0.4631  | 0.005                      | 0.6761  |
| 0.010                       | 0.0912  | 0.010                    | 0.2136  | 0.010                      | 0.4094  |
| 0.020                       | -0.1547 | 0.020                    | -0.0721 | 0.020                      | 0.0656  |
| 0.040                       | -0.3636 | 0.040                    | -0.2743 | 0.040                      | -0.1532 |
| 0.060                       | -0.4644 | 0.060                    | -0.3549 | 0.060                      | -0.2821 |
| 0.080                       | -0.5172 | 0.080                    | -0.4082 | 0.080                      | -0.3244 |
| 0.100                       | -0.5685 | 0.100                    | -0.4483 | 0.100                      | -0.3706 |
| 0.125                       | -0.5693 | 0.125                    | -0.4659 | 0.125                      | -0.4070 |
| 0.150                       | -0.6316 | 0.150                    | -0.5176 | 0.150                      | -0.4673 |
| 0.175                       | -0.6635 | 0.175                    | -0.5952 | 0.175                      | -0.4957 |
| 0.200                       | -0.7527 | 0.200                    | -0.6374 | 0.200                      | -0.5277 |
| 0.250                       | -0.8238 | 0.250                    | -0.7491 | 0.250                      | -0.6375 |
| 0.300                       | -0.9083 | 0.300                    | -0.8096 | 0.300                      | -0.6778 |
| 0.350                       | -0.9204 | 0.350                    | -0.8604 | 0.350                      | -0.7723 |
| 0.400                       | -0.9378 | 0.400                    | -0.9472 | 0.400                      | -0.8022 |
| 0.450                       | -0.9502 | 0.450                    | -0.9619 | 0.450                      | -0.8452 |
| 0.500                       | -1.0358 | 0.500                    | -1.0294 | 0.500                      | -0.8751 |
| 0.550                       | -0.4672 | 0.550                    | -0.9241 | 0.550                      | -0.9027 |

| Lower surface |        |       |         |       |         |
|---------------|--------|-------|---------|-------|---------|
| 0.005         | 0.3407 | 0.005 | 0.3436  | 0.005 | 0.2697  |
| 0.010         | 0.0368 | 0.010 | -0.0112 | 0.010 | -0.1682 |

Fight 32 Test point 39

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 30000. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 280.9 Rnpu = 2389000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9289  | 0.000                    | 0.9371  | 0.000                      | 0.9238  |
| 0.005                       | 0.2151  | 0.005                    | 0.2783  | 0.005                      | 0.4872  |
| 0.010                       | -0.0597 | 0.010                    | 0.0378  | 0.010                      | 0.2265  |
| 0.020                       | -0.2850 | 0.020                    | -0.2109 | 0.020                      | -0.1042 |
| 0.040                       | -0.4480 | 0.040                    | -0.3977 | 0.040                      | -0.2893 |
| 0.060                       | -0.5355 | 0.060                    | -0.4623 | 0.060                      | -0.3916 |
| 0.080                       | -0.5512 | 0.080                    | -0.5035 | 0.080                      | -0.4312 |
| 0.100                       | -0.6068 | 0.100                    | -0.5370 | 0.100                      | -0.4599 |
| 0.125                       | -0.5820 | 0.125                    | -0.5656 | 0.125                      | -0.5083 |
| 0.150                       | -0.6535 | 0.150                    | -0.5700 | 0.150                      | -0.5967 |
| 0.175                       | -0.6699 | 0.175                    | -0.6442 | 0.175                      | -0.5704 |
| 0.200                       | -0.7423 | 0.200                    | -0.6700 | 0.200                      | -0.5716 |
| 0.250                       | -0.8222 | 0.250                    | -0.7868 | 0.250                      | -0.6857 |
| 0.300                       | -0.8823 | 0.300                    | -0.8290 | 0.300                      | -0.7205 |
| 0.350                       | -0.8791 | 0.350                    | -0.8838 | 0.350                      | -0.7881 |
| 0.400                       | -0.8354 | 0.400                    | -0.9512 | 0.400                      | -0.8316 |
| 0.450                       | -0.7403 | 0.450                    | -0.9528 | 0.450                      | -0.8883 |
| 0.500                       | -0.7286 | 0.500                    | -1.0009 | 0.500                      | -0.8985 |
| 0.550                       | -0.4038 | 0.550                    | -0.4968 | 0.550                      | -0.4006 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3338 | 0.005 | 0.3385 | 0.005 | 0.2810  |
| 0.010 | 0.0469 | 0.010 | 0.0272 | 0.010 | -0.0994 |

Fight 32 Test point 40

Sweep, deg = 25.3 Mach = 0.75 hp, ft = 29900. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 246.1 Rnpu = 2224000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8844  | 0.000                    | 0.8963  | 0.000                      | 0.8932  |
| 0.005                       | -0.1146 | 0.005                    | -0.0405 | 0.005                      | 0.2404  |
| 0.010                       | -0.4114 | 0.010                    | -0.2984 | 0.010                      | -0.0681 |
| 0.020                       | -0.6206 | 0.020                    | -0.5429 | 0.020                      | -0.4213 |
| 0.040                       | -0.7701 | 0.040                    | -0.7143 | 0.040                      | -0.5657 |
| 0.060                       | -0.7601 | 0.060                    | -0.7254 | 0.060                      | -0.6362 |
| 0.080                       | -0.8578 | 0.080                    | -0.7458 | 0.080                      | -0.6478 |
| 0.100                       | -0.8199 | 0.100                    | -0.7360 | 0.100                      | -0.6547 |
| 0.125                       | -0.7470 | 0.125                    | -0.7733 | 0.125                      | -0.6760 |
| 0.150                       | -0.8181 | 0.150                    | -0.7282 | 0.150                      | -0.7322 |
| 0.175                       | -0.8117 | 0.175                    | -0.8127 | 0.175                      | -0.6805 |
| 0.200                       | -0.8760 | 0.200                    | -0.8026 | 0.200                      | -0.6969 |
| 0.250                       | -0.8443 | 0.250                    | -0.9018 | 0.250                      | -0.7253 |
| 0.300                       | -0.8274 | 0.300                    | -0.9143 | 0.300                      | -0.7035 |
| 0.350                       | -0.7538 | 0.350                    | -0.8779 | 0.350                      | -0.6853 |
| 0.400                       | -0.6520 | 0.400                    | -0.6484 | 0.400                      | -0.6188 |
| 0.450                       | -0.5418 | 0.450                    | -0.5972 | 0.450                      | -0.5792 |
| 0.500                       | -0.5255 | 0.500                    | -0.5674 | 0.500                      | -0.5144 |
| 0.550                       | -0.4470 | 0.550                    | -0.5377 | 0.550                      | -0.4581 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5262 | 0.005 | 0.5413 | 0.005 | 0.4750 |
| 0.010 | 0.2819 | 0.010 | 0.2684 | 0.010 | 0.1595 |

Fight 32 Test point 41

Sweep, deg = 25.3 Mach = 0.75 hp, ft = 30200. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 245.8 Rnpu = 2214000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9149  | 0.000                    | 0.9297  | 0.000                      | 0.9112  |
| 0.005                       | 0.1424  | 0.005                    | 0.2048  | 0.005                      | 0.4453  |
| 0.010                       | -0.1373 | 0.010                    | -0.0352 | 0.010                      | 0.1745  |
| 0.020                       | -0.3583 | 0.020                    | -0.2851 | 0.020                      | -0.1496 |
| 0.040                       | -0.5071 | 0.040                    | -0.4543 | 0.040                      | -0.3254 |
| 0.060                       | -0.5726 | 0.060                    | -0.5052 | 0.060                      | -0.4177 |
| 0.080                       | -0.6037 | 0.080                    | -0.5453 | 0.080                      | -0.4456 |
| 0.100                       | -0.6182 | 0.100                    | -0.5615 | 0.100                      | -0.4810 |
| 0.125                       | -0.5825 | 0.125                    | -0.5664 | 0.125                      | -0.5008 |
| 0.150                       | -0.6733 | 0.150                    | -0.6102 | 0.150                      | -0.5306 |
| 0.175                       | -0.6576 | 0.175                    | -0.6444 | 0.175                      | -0.5543 |
| 0.200                       | -0.7068 | 0.200                    | -0.6760 | 0.200                      | -0.5537 |
| 0.250                       | -0.7465 | 0.250                    | -0.7655 | 0.250                      | -0.6023 |
| 0.300                       | -0.7120 | 0.300                    | -0.7438 | 0.300                      | -0.6088 |
| 0.350                       | -0.6889 | 0.350                    | -0.6574 | 0.350                      | -0.6103 |
| 0.400                       | -0.6013 | 0.400                    | -0.6530 | 0.400                      | -0.5727 |
| 0.450                       | -0.5202 | 0.450                    | -0.5717 | 0.450                      | -0.5411 |
| 0.500                       | -0.5015 | 0.500                    | -0.5463 | 0.500                      | -0.4781 |
| 0.550                       | -0.4331 | 0.550                    | -0.5133 | 0.550                      | -0.4340 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3425 | 0.005 | 0.3600 | 0.005 | 0.2752  |
| 0.010 | 0.0736 | 0.010 | 0.0485 | 0.010 | -0.0979 |

Fight 32 Test point 42

Sweep, deg = 25.3 Mach = 0.75 hp, ft = 29600. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 252.0 R<sub>pu</sub> = 2260000.

Upper surface

| BL 200.8<br>Inboard station |                | BL 260<br>Middle station |                | BL 320<br>Outboard station |                |
|-----------------------------|----------------|--------------------------|----------------|----------------------------|----------------|
| x/c                         | C <sub>p</sub> | x/c                      | C <sub>p</sub> | x/c                        | C <sub>p</sub> |
| 0.000                       | 0.8993         | 0.000                    | 0.9118         | 0.000                      | 0.9069         |
| 0.005                       | -0.0166        | 0.005                    | 0.0540         | 0.005                      | 0.3227         |
| 0.010                       | -0.3049        | 0.010                    | -0.2005        | 0.010                      | 0.0242         |
| 0.020                       | -0.5129        | 0.020                    | -0.4455        | 0.020                      | -0.3204        |
| 0.040                       | -0.6575        | 0.040                    | -0.6068        | 0.040                      | -0.4791        |
| 0.060                       | -0.7170        | 0.060                    | -0.6383        | 0.060                      | -0.5572        |
| 0.080                       | -0.6994        | 0.080                    | -0.6581        | 0.080                      | -0.5684        |
| 0.100                       | -0.7243        | 0.100                    | -0.6827        | 0.100                      | -0.5858        |
| 0.125                       | -0.6438        | 0.125                    | -0.6600        | 0.125                      | -0.6186        |
| 0.150                       | -0.7666        | 0.150                    | -0.6929        | 0.150                      | -0.6316        |
| 0.175                       | -0.7631        | 0.175                    | -0.7475        | 0.175                      | -0.6464        |
| 0.200                       | -0.7856        | 0.200                    | -0.7603        | 0.200                      | -0.6542        |
| 0.250                       | -0.8338        | 0.250                    | -0.8592        | 0.250                      | -0.6854        |
| 0.300                       | -0.8135        | 0.300                    | -0.8732        | 0.300                      | -0.6839        |
| 0.350                       | -0.7398        | 0.350                    | -0.8151        | 0.350                      | -0.6559        |
| 0.400                       | -0.6302        | 0.400                    | -0.6550        | 0.400                      | -0.6059        |
| 0.450                       | -0.5388        | 0.450                    | -0.5985        | 0.450                      | -0.5704        |
| 0.500                       | -0.5165        | 0.500                    | -0.5637        | 0.500                      | -0.5037        |
| 0.550                       | -0.4431        | 0.550                    | -0.5246        | 0.550                      | -0.4484        |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4678 | 0.005 | 0.4746 | 0.005 | 0.4117 |
| 0.010 | 0.2098 | 0.010 | 0.1941 | 0.010 | 0.0659 |

Fight 32 Test point 43

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 29900. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 250.1 R<sub>rho</sub> = 2241000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9742  | 0.000                    | 0.9968  | 0.000                      | 0.9832  |
| 0.005                       | 0.0356  | 0.005                    | 0.1234  | 0.005                      | 0.3977  |
| 0.010                       | -0.2599 | 0.010                    | -0.1438 | 0.010                      | 0.0879  |
| 0.020                       | -0.4863 | 0.020                    | -0.4110 | 0.020                      | -0.2778 |
| 0.040                       | -0.6700 | 0.040                    | -0.5982 | 0.040                      | -0.4559 |
| 0.060                       | -0.7046 | 0.060                    | -0.6445 | 0.060                      | -0.5644 |
| 0.080                       | -0.8121 | 0.080                    | -0.6791 | 0.080                      | -0.5797 |
| 0.100                       | -0.7747 | 0.100                    | -0.6915 | 0.100                      | -0.6027 |
| 0.125                       | -0.7224 | 0.125                    | -0.7367 | 0.125                      | -0.6191 |
| 0.150                       | -0.8114 | 0.150                    | -0.7026 | 0.150                      | -0.6938 |
| 0.175                       | -0.8218 | 0.175                    | -0.7737 | 0.175                      | -0.6655 |
| 0.200                       | -0.8997 | 0.200                    | -0.8185 | 0.200                      | -0.6963 |
| 0.250                       | -0.9772 | 0.250                    | -0.9151 | 0.250                      | -0.7907 |
| 0.300                       | -1.0081 | 0.300                    | -0.9538 | 0.300                      | -0.7969 |
| 0.350                       | -0.9704 | 0.350                    | -0.9936 | 0.350                      | -0.8247 |
| 0.400                       | -0.6836 | 0.400                    | -1.0519 | 0.400                      | -0.7928 |
| 0.450                       | -0.5390 | 0.450                    | -0.5192 | 0.450                      | -0.5857 |
| 0.500                       | -0.5228 | 0.500                    | -0.5204 | 0.500                      | -0.5311 |
| 0.550                       | -0.4527 | 0.550                    | -0.5213 | 0.550                      | -0.4669 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4975 | 0.005 | 0.5066 | 0.005 | 0.4345 |
| 0.010 | 0.2278 | 0.010 | 0.2045 | 0.010 | 0.0640 |

Fight 32 Test point 44

Sweep, deg = 20.0 Mach = 0.76 hp, ft = 29900. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 252.2 Rnpu = 2247000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0257  | 0.000                    | 1.0600  | 0.000                      | 1.0480  |
| 0.005                       | 0.0948  | 0.005                    | 0.2103  | 0.005                      | 0.4851  |
| 0.010                       | -0.2001 | 0.010                    | -0.0680 | 0.010                      | 0.1795  |
| 0.020                       | -0.4353 | 0.020                    | -0.3492 | 0.020                      | -0.1969 |
| 0.040                       | -0.6378 | 0.040                    | -0.5384 | 0.040                      | -0.3889 |
| 0.060                       | -0.6872 | 0.060                    | -0.5965 | 0.060                      | -0.4996 |
| 0.080                       | -0.7797 | 0.080                    | -0.6397 | 0.080                      | -0.5280 |
| 0.100                       | -0.7414 | 0.100                    | -0.6570 | 0.100                      | -0.5508 |
| 0.125                       | -0.6962 | 0.125                    | -0.6859 | 0.125                      | -0.5682 |
| 0.150                       | -0.3023 | 0.150                    | -0.6922 | 0.150                      | -0.6355 |
| 0.175                       | -0.8117 | 0.175                    | -0.7465 | 0.175                      | -0.6391 |
| 0.200                       | -0.9095 | 0.200                    | -0.8031 | 0.200                      | -0.6622 |
| 0.250                       | -0.9803 | 0.250                    | -0.8951 | 0.250                      | -0.7528 |
| 0.300                       | -1.0508 | 0.300                    | -0.9431 | 0.300                      | -0.7801 |
| 0.350                       | -1.0283 | 0.350                    | -0.9777 | 0.350                      | -0.8259 |
| 0.400                       | -0.9385 | 0.400                    | -1.0543 | 0.400                      | -0.8241 |
| 0.450                       | -0.4630 | 0.450                    | -1.0395 | 0.450                      | -0.5944 |
| 0.500                       | -0.4735 | 0.500                    | -0.4619 | 0.500                      | -0.5265 |
| 0.550                       | -0.4245 | 0.550                    | -0.4834 | 0.550                      | -0.4676 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5181 | 0.005 | 0.5171 | 0.005 | 0.4342 |
| 0.010 | 0.2412 | 0.010 | 0.1935 | 0.010 | 0.0370 |

Fight 32 Test point 45

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 30500. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 240.9 Rnpu = 2168000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9856  | 0.000                    | 1.0067  | 0.000                      | 0.9907  |
| 0.005                       | 0.1598  | 0.005                    | 0.2500  | 0.005                      | 0.5019  |
| 0.010                       | -0.1283 | 0.010                    | -0.0093 | 0.010                      | 0.2104  |
| 0.020                       | -0.3580 | 0.020                    | -0.2852 | 0.020                      | -0.1411 |
| 0.040                       | -0.5421 | 0.040                    | -0.4750 | 0.040                      | -0.3329 |
| 0.060                       | -0.6119 | 0.060                    | -0.5274 | 0.060                      | -0.4407 |
| 0.080                       | -0.6462 | 0.080                    | -0.5697 | 0.080                      | -0.4759 |
| 0.100                       | -0.6732 | 0.100                    | -0.5958 | 0.100                      | -0.5012 |
| 0.125                       | -0.6341 | 0.125                    | -0.6019 | 0.125                      | -0.5239 |
| 0.150                       | -0.7294 | 0.150                    | -0.6543 | 0.150                      | -0.5663 |
| 0.175                       | -0.7533 | 0.175                    | -0.6911 | 0.175                      | -0.5938 |
| 0.200                       | -0.7922 | 0.200                    | -0.7357 | 0.200                      | -0.6055 |
| 0.250                       | -0.8491 | 0.250                    | -0.8226 | 0.250                      | -0.6709 |
| 0.300                       | -0.8112 | 0.300                    | -0.8691 | 0.300                      | -0.6910 |
| 0.350                       | -0.7716 | 0.350                    | -0.8784 | 0.350                      | -0.6796 |
| 0.400                       | -0.6360 | 0.400                    | -0.6109 | 0.400                      | -0.6267 |
| 0.450                       | -0.5432 | 0.450                    | -0.6054 | 0.450                      | -0.5855 |
| 0.500                       | -0.5233 | 0.500                    | -0.5849 | 0.500                      | -0.5197 |
| 0.550                       | -0.4479 | 0.550                    | -0.5414 | 0.550                      | -0.4553 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3882 | 0.005 | 0.3972 | 0.005 | 0.3146  |
| 0.010 | 0.0990 | 0.010 | 0.0704 | 0.010 | -0.0847 |



Fight 32 Test point 46

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 30400. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -5.3 QBAR, lb/ft<sup>2</sup> = 240.9 Rnpu = 2164000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0327  | 0.000                    | 1.0672  | 0.000                      | 1.0513  |
| 0.005                       | 0.2158  | 0.005                    | 0.3308  | 0.005                      | 0.5872  |
| 0.010                       | -0.0748 | 0.010                    | 0.0555  | 0.010                      | 0.2973  |
| 0.020                       | -0.3181 | 0.020                    | -0.2238 | 0.020                      | -0.0621 |
| 0.040                       | -0.5156 | 0.040                    | -0.4185 | 0.040                      | -0.2664 |
| 0.060                       | -0.5900 | 0.060                    | -0.4790 | 0.060                      | -0.3768 |
| 0.080                       | -0.6400 | 0.080                    | -0.5283 | 0.080                      | -0.4172 |
| 0.100                       | -0.6630 | 0.100                    | -0.5560 | 0.100                      | -0.4523 |
| 0.125                       | -0.6201 | 0.125                    | -0.5695 | 0.125                      | -0.4771 |
| 0.150                       | -0.7170 | 0.150                    | -0.6239 | 0.150                      | -0.5181 |
| 0.175                       | -0.7418 | 0.175                    | -0.6770 | 0.175                      | -0.5515 |
| 0.200                       | -0.8187 | 0.200                    | -0.7121 | 0.200                      | -0.5669 |
| 0.250                       | -0.8848 | 0.250                    | -0.8057 | 0.250                      | -0.6396 |
| 0.300                       | -0.9138 | 0.300                    | -0.8616 | 0.300                      | -0.6630 |
| 0.350                       | -0.6963 | 0.350                    | -0.8653 | 0.350                      | -0.6872 |
| 0.400                       | -0.6024 | 0.400                    | -0.7423 | 0.400                      | -0.6267 |
| 0.450                       | -0.5318 | 0.450                    | -0.5859 | 0.450                      | -0.5862 |
| 0.500                       | -0.5140 | 0.500                    | -0.5821 | 0.500                      | -0.5203 |
| 0.550                       | -0.4338 | 0.550                    | -0.5371 | 0.550                      | -0.4556 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4097 | 0.005 | 0.4085 | 0.005 | 0.3117  |
| 0.010 | 0.1158 | 0.010 | 0.0604 | 0.010 | -0.1218 |

Fight 32 Test point 47

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 272.4 Rnpu = 2510000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9637  | 0.000                    | 0.9932  | 0.000                      | 0.9771  |
| 0.005                       | 0.0631  | 0.005                    | 0.1627  | 0.005                      | 0.4494  |
| 0.010                       | -0.2281 | 0.010                    | -0.1022 | 0.010                      | 0.1532  |
| 0.020                       | -0.4543 | 0.020                    | -0.3637 | 0.020                      | -0.2014 |
| 0.040                       | -0.6033 | 0.040                    | -0.5294 | 0.040                      | -0.3707 |
| 0.060                       | -0.6510 | 0.060                    | -0.5708 | 0.060                      | -0.4518 |
| 0.080                       | -0.6728 | 0.080                    | -0.5939 | 0.080                      | -0.4780 |
| 0.100                       | -0.6828 | 0.100                    | -0.6067 | 0.100                      | -0.4981 |
| 0.125                       | -0.6358 | 0.125                    | -0.6097 | 0.125                      | -0.5080 |
| 0.150                       | -0.7128 | 0.150                    | -0.6421 | 0.150                      | -0.5389 |
| 0.175                       | -0.6937 | 0.175                    | -0.6730 | 0.175                      | -0.5542 |
| 0.200                       | -0.7500 | 0.200                    | -0.6920 | 0.200                      | -0.5624 |
| 0.250                       | -0.7398 | 0.250                    | -0.7407 | 0.250                      | -0.5998 |
| 0.300                       | -0.7226 | 0.300                    | -0.7324 | 0.300                      | -0.5977 |
| 0.350                       | -0.6618 | 0.350                    | -0.6653 | 0.350                      | -0.6033 |
| 0.400                       | -0.5993 | 0.400                    | -0.6564 | 0.400                      | -0.5712 |
| 0.450                       | -0.5289 | 0.450                    | -0.5854 | 0.450                      | -0.5417 |
| 0.500                       | -0.5100 | 0.500                    | -0.5688 | 0.500                      | -0.4940 |
| 0.550                       | -0.4410 | 0.550                    | -0.5379 | 0.550                      | -0.4572 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.4200 | 0.005 | 0.4226 | 0.005 | 0.3235  |
| 0.010         | 0.1394 | 0.010 | 0.1037 | 0.010 | -0.0701 |

Fight 32 Test point 48

Sweep, deg = 20.0 Mach = 0.71 hp, ft = 24900. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = -4.9 QBAR, lb/ft<sup>2</sup> = 274.2 Rnpu = 2540000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9926  | 0.000                    | 1.0310  | 0.000                      | 1.0308  |
| 0.005                       | -0.0505 | 0.005                    | 0.0767  | 0.005                      | 0.4107  |
| 0.010                       | -0.3582 | 0.010                    | -0.2097 | 0.010                      | 0.0851  |
| 0.020                       | -0.5825 | 0.020                    | -0.4767 | 0.020                      | -0.2900 |
| 0.040                       | -0.7516 | 0.040                    | -0.6376 | 0.040                      | -0.4563 |
| 0.060                       | -0.7799 | 0.060                    | -0.6683 | 0.060                      | -0.5405 |
| 0.080                       | -0.8022 | 0.080                    | -0.6917 | 0.080                      | -0.5534 |
| 0.100                       | -0.8053 | 0.100                    | -0.6990 | 0.100                      | -0.5674 |
| 0.125                       | -0.7311 | 0.125                    | -0.6963 | 0.125                      | -0.5735 |
| 0.150                       | -0.8282 | 0.150                    | -0.7320 | 0.150                      | -0.5996 |
| 0.175                       | -0.7934 | 0.175                    | -0.7669 | 0.175                      | -0.6147 |
| 0.200                       | -0.8718 | 0.200                    | -0.7798 | 0.200                      | -0.6212 |
| 0.250                       | -0.8376 | 0.250                    | -0.8304 | 0.250                      | -0.6578 |
| 0.300                       | -0.7941 | 0.300                    | -0.8133 | 0.300                      | -0.6535 |
| 0.350                       | -0.7111 | 0.350                    | -0.7222 | 0.350                      | -0.6522 |
| 0.400                       | -0.6351 | 0.400                    | -0.7076 | 0.400                      | -0.6060 |
| 0.450                       | -0.5548 | 0.450                    | -0.6218 | 0.450                      | -0.5790 |
| 0.500                       | -0.5261 | 0.500                    | -0.5905 | 0.500                      | -0.5230 |
| 0.550                       | -0.4472 | 0.550                    | -0.5532 | 0.550                      | -0.4713 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.5566 | 0.005 | 0.5495 | 0.005 | 0.4474 |
| 0.010         | 0.2848 | 0.010 | 0.2388 | 0.010 | 0.0560 |

Fight 32 Test point 49

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 25100. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 266.3 Rnpu = 2495000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9649  | 0.000                    | 0.9891  | 0.000                      | 0.9749  |
| 0.005                       | 0.1098  | 0.005                    | 0.2053  | 0.005                      | 0.4852  |
| 0.010                       | -0.1753 | 0.010                    | -0.0589 | 0.010                      | 0.1941  |
| 0.020                       | -0.3990 | 0.020                    | -0.3179 | 0.020                      | -0.1512 |
| 0.040                       | -0.5548 | 0.040                    | -0.4804 | 0.040                      | -0.3270 |
| 0.060                       | -0.6047 | 0.060                    | -0.5203 | 0.060                      | -0.4145 |
| 0.080                       | -0.6323 | 0.080                    | -0.5502 | 0.080                      | -0.4402 |
| 0.100                       | -0.6383 | 0.100                    | -0.5682 | 0.100                      | -0.4573 |
| 0.125                       | -0.5966 | 0.125                    | -0.5745 | 0.125                      | -0.4760 |
| 0.150                       | -0.6705 | 0.150                    | -0.6054 | 0.150                      | -0.5071 |
| 0.175                       | -0.6593 | 0.175                    | -0.6337 | 0.175                      | -0.5274 |
| 0.200                       | -0.7121 | 0.200                    | -0.6505 | 0.200                      | -0.5281 |
| 0.250                       | -0.7047 | 0.250                    | -0.7002 | 0.250                      | -0.5652 |
| 0.300                       | -0.6871 | 0.300                    | -0.6959 | 0.300                      | -0.5692 |
| 0.350                       | -0.6360 | 0.350                    | -0.6363 | 0.350                      | -0.5717 |
| 0.400                       | -0.5810 | 0.400                    | -0.6365 | 0.400                      | -0.5521 |
| 0.450                       | -0.5142 | 0.450                    | -0.5699 | 0.450                      | -0.5294 |
| 0.500                       | -0.5000 | 0.500                    | -0.5527 | 0.500                      | -0.4868 |
| 0.550                       | -0.4307 | 0.550                    | -0.5249 | 0.550                      | -0.4515 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3720 | 0.005 | 0.3782 | 0.005 | 0.2705  |
| 0.010 | 0.0876 | 0.010 | 0.0530 | 0.010 | -0.1266 |

Flight 32 Test point 50

Sweep, deg = 20.0 Mach = 0.71 hp, ft = 24800. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 275.4 Rnpu = 2537000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0183  | 0.000                    | 1.0508  | 0.000                      | 1.0363  |
| 0.005                       | 0.1477  | 0.005                    | 0.2756  | 0.005                      | 0.5610  |
| 0.010                       | -0.1444 | 0.010                    | -0.0027 | 0.010                      | 0.2684  |
| 0.020                       | -0.3809 | 0.020                    | -0.2764 | 0.020                      | -0.0881 |
| 0.040                       | -0.5545 | 0.040                    | -0.4506 | 0.040                      | -0.2808 |
| 0.060                       | -0.6105 | 0.060                    | -0.5032 | 0.060                      | -0.3803 |
| 0.080                       | -0.6425 | 0.080                    | -0.5414 | 0.080                      | -0.4142 |
| 0.100                       | -0.6579 | 0.100                    | -0.5554 | 0.100                      | -0.4387 |
| 0.125                       | -0.6182 | 0.125                    | -0.5667 | 0.125                      | -0.4579 |
| 0.150                       | -0.7005 | 0.150                    | -0.6117 | 0.150                      | -0.4905 |
| 0.175                       | -0.6893 | 0.175                    | -0.6451 | 0.175                      | -0.5162 |
| 0.200                       | -0.7476 | 0.200                    | -0.6700 | 0.200                      | -0.5271 |
| 0.250                       | -0.7432 | 0.250                    | -0.7242 | 0.250                      | -0.5714 |
| 0.300                       | -0.7210 | 0.300                    | -0.7239 | 0.300                      | -0.5798 |
| 0.350                       | -0.6623 | 0.350                    | -0.6590 | 0.350                      | -0.5889 |
| 0.400                       | -0.5936 | 0.400                    | -0.6518 | 0.400                      | -0.5640 |
| 0.450                       | -0.5248 | 0.450                    | -0.5782 | 0.450                      | -0.5356 |
| 0.500                       | -0.5047 | 0.500                    | -0.5632 | 0.500                      | -0.4926 |
| 0.550                       | -0.4322 | 0.550                    | -0.5293 | 0.550                      | -0.4536 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4101 | 0.005 | 0.3947 | 0.005 | 0.2783  |
| 0.010 | 0.1166 | 0.010 | 0.0544 | 0.010 | -0.1512 |

Fight 32 Test point 51

Sweep, deg = 27.7 Mach = 0.70 hp, ft = 24900. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 270.3 Rnpu = 2509000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8295  | 0.000                    | 0.8372  | 0.000                      | 0.8408  |
| 0.005                       | -0.1703 | 0.005                    | -0.0912 | 0.005                      | 0.2152  |
| 0.010                       | -0.4461 | 0.010                    | -0.3364 | 0.010                      | -0.0891 |
| 0.020                       | -0.6207 | 0.020                    | -0.5543 | 0.020                      | -0.4003 |
| 0.040                       | -0.7006 | 0.040                    | -0.6611 | 0.040                      | -0.5119 |
| 0.060                       | -0.7054 | 0.060                    | -0.6532 | 0.060                      | -0.5642 |
| 0.080                       | -0.7094 | 0.080                    | -0.6534 | 0.080                      | -0.5608 |
| 0.100                       | -0.6940 | 0.100                    | -0.6492 | 0.100                      | -0.5614 |
| 0.125                       | -0.6269 | 0.125                    | -0.6369 | 0.125                      | -0.5564 |
| 0.150                       | -0.6910 | 0.150                    | -0.6633 | 0.150                      | -0.5556 |
| 0.175                       | -0.6731 | 0.175                    | -0.6679 | 0.175                      | -0.5846 |
| 0.200                       | -0.7005 | 0.200                    | -0.6677 | 0.200                      | -0.5656 |
| 0.250                       | -0.6876 | 0.250                    | -0.7056 | 0.250                      | -0.5803 |
| 0.300                       | -0.6706 | 0.300                    | -0.6671 | 0.300                      | -0.5665 |
| 0.350                       | -0.6097 | 0.350                    | -0.6112 | 0.350                      | -0.5606 |
| 0.400                       | -0.5570 | 0.400                    | -0.6026 | 0.400                      | -0.5327 |
| 0.450                       | -0.4908 | 0.450                    | -0.5381 | 0.450                      | -0.5034 |
| 0.500                       | -0.4785 | 0.500                    | -0.5178 | 0.500                      | -0.4654 |
| 0.550                       | -0.4189 | 0.550                    | -0.4911 | 0.550                      | -0.4399 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.4896 | 0.005 | 0.4921 | 0.005 | 0.4184 |
| 0.010         | 0.2540 | 0.010 | 0.2364 | 0.010 | 0.1127 |

Fight 32 Test point 52

Sweep, deg = 27.7 Mach = 0.70 hp, ft = 25600. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 263.1 Rnpu = 2451000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8613  | 0.000                    | 0.8697  | 0.000                      | 0.8559  |
| 0.005                       | 0.0669  | 0.005                    | 0.1268  | 0.005                      | 0.3891  |
| 0.010                       | -0.2014 | 0.010                    | -0.0953 | 0.010                      | 0.1210  |
| 0.020                       | -0.3932 | 0.020                    | -0.3287 | 0.020                      | -0.1871 |
| 0.040                       | -0.5064 | 0.040                    | -0.4589 | 0.040                      | -0.3349 |
| 0.060                       | -0.5407 | 0.060                    | -0.4895 | 0.060                      | -0.4027 |
| 0.080                       | -0.5644 | 0.080                    | -0.5040 | 0.080                      | -0.4201 |
| 0.100                       | -0.5669 | 0.100                    | -0.5137 | 0.100                      | -0.4364 |
| 0.125                       | -0.5294 | 0.125                    | -0.5164 | 0.125                      | -0.4406 |
| 0.150                       | -0.5863 | 0.150                    | -0.5461 | 0.150                      | -0.4525 |
| 0.175                       | -0.5779 | 0.175                    | -0.5608 | 0.175                      | -0.4789 |
| 0.200                       | -0.6206 | 0.200                    | -0.5712 | 0.200                      | -0.4721 |
| 0.250                       | -0.6147 | 0.250                    | -0.6168 | 0.250                      | -0.5093 |
| 0.300                       | -0.5975 | 0.300                    | -0.5956 | 0.300                      | -0.5036 |
| 0.350                       | -0.5599 | 0.350                    | -0.5567 | 0.350                      | -0.5095 |
| 0.400                       | -0.5193 | 0.400                    | -0.5537 | 0.400                      | -0.4867 |
| 0.450                       | -0.4612 | 0.450                    | -0.4965 | 0.450                      | -0.4705 |
| 0.500                       | -0.4531 | 0.500                    | -0.4884 | 0.500                      | -0.4354 |
| 0.550                       | -0.3922 | 0.550                    | -0.4648 | 0.550                      | -0.4216 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.3291 | 0.005 | 0.3410 | 0.005 | 0.2485  |
| 0.010         | 0.0664 | 0.010 | 0.0482 | 0.010 | -0.1034 |

Fight 32 Test point 53

Sweep, deg = 31.6 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 2.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 269.0 Rnpu = 2517000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7577  | 0.000                    | 0.7503  | 0.000                      | 0.7558  |
| 0.005                       | -0.2690 | 0.005                    | -0.1998 | 0.005                      | 0.1041  |
| 0.010                       | -0.5325 | 0.010                    | -0.4140 | 0.010                      | -0.1824 |
| 0.020                       | -0.6776 | 0.020                    | -0.6121 | 0.020                      | -0.4741 |
| 0.040                       | -0.7134 | 0.040                    | -0.6758 | 0.040                      | -0.5519 |
| 0.060                       | -0.7134 | 0.060                    | -0.6616 | 0.060                      | -0.5792 |
| 0.080                       | -0.6967 | 0.080                    | -0.6627 | 0.080                      | -0.5684 |
| 0.100                       | -0.6890 | 0.100                    | -0.6414 | 0.100                      | -0.5644 |
| 0.125                       | -0.6134 | 0.125                    | -0.6321 | 0.125                      | -0.5549 |
| 0.150                       | -0.6652 | 0.150                    | -0.6394 | 0.150                      | -0.5548 |
| 0.175                       | -0.6397 | 0.175                    | -0.6413 | 0.175                      | -0.5660 |
| 0.200                       | -0.6757 | 0.200                    | -0.6425 | 0.200                      | -0.5467 |
| 0.250                       | -0.6572 | 0.250                    | -0.6630 | 0.250                      | -0.5611 |
| 0.300                       | -0.6267 | 0.300                    | -0.6294 | 0.300                      | -0.5430 |
| 0.350                       | -0.5786 | 0.350                    | -0.5817 | 0.350                      | -0.5281 |
| 0.400                       | -0.5286 | 0.400                    | -0.5633 | 0.400                      | -0.5068 |
| 0.450                       | -0.4689 | 0.450                    | -0.5058 | 0.450                      | -0.4784 |
| 0.500                       | -0.4518 | 0.500                    | -0.4861 | 0.500                      | -0.4383 |
| 0.550                       | -0.3963 | 0.550                    | -0.4671 | 0.550                      | -0.4166 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.4997 | 0.005 | 0.5127 | 0.005 | 0.4493 |
| 0.010         | 0.2875 | 0.010 | 0.2806 | 0.010 | 0.1728 |



Fight 32 Test point 54

Sweep, deg = 31.6 Mach = 0.71 hp, ft = 25200. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 270.5 Rnpu = 2513000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7895  | 0.000                    | 0.7838  | 0.000                      | 0.7830  |
| 0.005                       | -0.0850 | 0.005                    | -0.0314 | 0.005                      | 0.2398  |
| 0.010                       | -0.3398 | 0.010                    | -0.2412 | 0.010                      | -0.0306 |
| 0.020                       | -0.5025 | 0.020                    | -0.4500 | 0.020                      | -0.3067 |
| 0.040                       | -0.5806 | 0.040                    | -0.5376 | 0.040                      | -0.4236 |
| 0.060                       | -0.5954 | 0.060                    | -0.5485 | 0.060                      | -0.4712 |
| 0.080                       | -0.6062 | 0.080                    | -0.5565 | 0.080                      | -0.4780 |
| 0.100                       | -0.6024 | 0.100                    | -0.5571 | 0.100                      | -0.4831 |
| 0.125                       | -0.5472 | 0.125                    | -0.5566 | 0.125                      | -0.4816 |
| 0.150                       | -0.6031 | 0.150                    | -0.5693 | 0.150                      | -0.4869 |
| 0.175                       | -0.5878 | 0.175                    | -0.5778 | 0.175                      | -0.5077 |
| 0.200                       | -0.6216 | 0.200                    | -0.5863 | 0.200                      | -0.4933 |
| 0.250                       | -0.6121 | 0.250                    | -0.6155 | 0.250                      | -0.5189 |
| 0.300                       | -0.5886 | 0.300                    | -0.5902 | 0.300                      | -0.5020 |
| 0.350                       | -0.5498 | 0.350                    | -0.5468 | 0.350                      | -0.4979 |
| 0.400                       | -0.5067 | 0.400                    | -0.5381 | 0.400                      | -0.4801 |
| 0.450                       | -0.4509 | 0.450                    | -0.4839 | 0.450                      | -0.4576 |
| 0.500                       | -0.4400 | 0.500                    | -0.4688 | 0.500                      | -0.4224 |
| 0.550                       | -0.3834 | 0.550                    | -0.4487 | 0.550                      | -0.4055 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4095 | 0.005 | 0.4150 | 0.005 | 0.3389 |
| 0.010 | 0.1769 | 0.010 | 0.1649 | 0.010 | 0.0380 |

Fight 32 Test point 55

Sweep, deg = 31.6 Mach = 0.70 hp, ft = 25400. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 264.4 Rnpu = 2471000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7584  | 0.000                    | 0.7497  | 0.000                      | 0.7580  |
| 0.005                       | -0.2520 | 0.005                    | -0.1839 | 0.005                      | 0.1117  |
| 0.010                       | -0.5197 | 0.010                    | -0.3980 | 0.010                      | -0.1737 |
| 0.020                       | -0.6635 | 0.020                    | -0.6006 | 0.020                      | -0.4637 |
| 0.040                       | -0.7041 | 0.040                    | -0.6633 | 0.040                      | -0.5483 |
| 0.060                       | -0.7036 | 0.060                    | -0.6519 | 0.060                      | -0.5730 |
| 0.080                       | -0.6857 | 0.080                    | -0.6521 | 0.080                      | -0.5674 |
| 0.100                       | -0.6794 | 0.100                    | -0.6360 | 0.100                      | -0.5627 |
| 0.125                       | -0.6017 | 0.125                    | -0.6202 | 0.125                      | -0.5492 |
| 0.150                       | -0.6596 | 0.150                    | -0.6346 | 0.150                      | -0.5500 |
| 0.175                       | -0.6355 | 0.175                    | -0.6384 | 0.175                      | -0.5584 |
| 0.200                       | -0.6704 | 0.200                    | -0.6411 | 0.200                      | -0.5457 |
| 0.250                       | -0.6501 | 0.250                    | -0.6602 | 0.250                      | -0.5615 |
| 0.300                       | -0.6202 | 0.300                    | -0.6293 | 0.300                      | -0.5410 |
| 0.350                       | -0.5782 | 0.350                    | -0.5774 | 0.350                      | -0.5285 |
| 0.400                       | -0.5266 | 0.400                    | -0.5639 | 0.400                      | -0.5041 |
| 0.450                       | -0.4654 | 0.450                    | -0.5075 | 0.450                      | -0.4769 |
| 0.500                       | -0.4552 | 0.500                    | -0.4807 | 0.500                      | -0.4359 |
| 0.550                       | -0.3942 | 0.550                    | -0.4629 | 0.550                      | -0.4163 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.4950 | 0.005 | 0.5030 | 0.005 | 0.4395 |
| 0.010         | 0.2818 | 0.010 | 0.2681 | 0.010 | 0.1603 |

Fight 32 Test point 56

Sweep, deg = 24.9 Mach = 0.75 hp, ft = 25000. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 308.2 Rnpu = 2715000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9206  | 0.000                    | 0.9282  | 0.000                      | 0.9170  |
| 0.005                       | 0.1322  | 0.005                    | 0.2001  | 0.005                      | 0.4482  |
| 0.010                       | -0.1482 | 0.010                    | -0.0470 | 0.010                      | 0.1700  |
| 0.020                       | -0.3681 | 0.020                    | -0.2975 | 0.020                      | -0.1625 |
| 0.040                       | -0.5211 | 0.040                    | -0.4677 | 0.040                      | -0.3349 |
| 0.060                       | -0.5774 | 0.060                    | -0.5147 | 0.060                      | -0.4286 |
| 0.080                       | -0.6110 | 0.080                    | -0.5523 | 0.080                      | -0.4584 |
| 0.100                       | -0.6299 | 0.100                    | -0.5726 | 0.100                      | -0.4839 |
| 0.125                       | -0.5923 | 0.125                    | -0.5771 | 0.125                      | -0.5071 |
| 0.150                       | -0.6806 | 0.150                    | -0.6198 | 0.150                      | -0.5320 |
| 0.175                       | -0.6715 | 0.175                    | -0.6569 | 0.175                      | -0.5627 |
| 0.200                       | -0.7226 | 0.200                    | -0.6771 | 0.200                      | -0.5599 |
| 0.250                       | -0.7489 | 0.250                    | -0.7736 | 0.250                      | -0.6088 |
| 0.300                       | -0.7236 | 0.300                    | -0.7534 | 0.300                      | -0.6109 |
| 0.350                       | -0.7086 | 0.350                    | -0.7044 | 0.350                      | -0.6122 |
| 0.400                       | -0.6078 | 0.400                    | -0.6568 | 0.400                      | -0.5769 |
| 0.450                       | -0.5267 | 0.450                    | -0.5819 | 0.450                      | -0.5446 |
| 0.500                       | -0.5038 | 0.500                    | -0.5526 | 0.500                      | -0.4891 |
| 0.550                       | -0.4352 | 0.550                    | -0.5211 | 0.550                      | -0.4422 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.3546 | 0.005 | 0.3584 | 0.005 | 0.2768  |
| 0.010         | 0.0762 | 0.010 | 0.0499 | 0.010 | -0.0994 |

Fight 32 Test point 57

Sweep, deg = 24.9 Mach = 0.75 hp, ft = 25400. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 306.0 Rnpu = 2672000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9240  | 0.000                    | 0.9357  | 0.000                      | 0.9196  |
| 0.005                       | 0.1542  | 0.005                    | 0.2252  | 0.005                      | 0.4671  |
| 0.010                       | -0.1228 | 0.010                    | -0.0219 | 0.010                      | 0.1937  |
| 0.020                       | -0.3459 | 0.020                    | -0.2767 | 0.020                      | -0.1422 |
| 0.040                       | -0.5028 | 0.040                    | -0.4482 | 0.040                      | -0.3170 |
| 0.060                       | -0.5623 | 0.060                    | -0.5020 | 0.060                      | -0.4130 |
| 0.080                       | -0.5984 | 0.080                    | -0.5404 | 0.080                      | -0.4457 |
| 0.100                       | -0.6198 | 0.100                    | -0.5604 | 0.100                      | -0.4729 |
| 0.125                       | -0.5848 | 0.125                    | -0.5657 | 0.125                      | -0.4991 |
| 0.150                       | -0.6705 | 0.150                    | -0.6113 | 0.150                      | -0.5251 |
| 0.175                       | -0.6548 | 0.175                    | -0.6532 | 0.175                      | -0.5550 |
| 0.200                       | -0.7396 | 0.200                    | -0.6723 | 0.200                      | -0.5579 |
| 0.250                       | -0.7521 | 0.250                    | -0.7718 | 0.250                      | -0.6130 |
| 0.300                       | -0.7246 | 0.300                    | -0.7684 | 0.300                      | -0.6172 |
| 0.350                       | -0.7084 | 0.350                    | -0.6832 | 0.350                      | -0.6202 |
| 0.400                       | -0.6074 | 0.400                    | -0.6626 | 0.400                      | -0.5827 |
| 0.450                       | -0.5306 | 0.450                    | -0.5845 | 0.450                      | -0.5502 |
| 0.500                       | -0.5059 | 0.500                    | -0.5527 | 0.500                      | -0.4918 |
| 0.550                       | -0.4360 | 0.550                    | -0.5204 | 0.550                      | -0.4448 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3383 | 0.005 | 0.3429 | 0.005 | 0.2583  |
| 0.010 | 0.0573 | 0.010 | 0.0271 | 0.010 | -0.1176 |

Fight 32 Test point 58

Sweep, deg = 24.9 Mach = 0.76 hp, ft = 25000. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 314.6 Rnpu = 2742000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9107  | 0.000                    | 0.9189  | 0.000                      | 0.9122  |
| 0.005                       | -0.0304 | 0.005                    | 0.0483  | 0.005                      | 0.3180  |
| 0.010                       | -0.3204 | 0.010                    | -0.2109 | 0.010                      | 0.0190  |
| 0.020                       | -0.5361 | 0.020                    | -0.4641 | 0.020                      | -0.3344 |
| 0.040                       | -0.6799 | 0.040                    | -0.6413 | 0.040                      | -0.4966 |
| 0.060                       | -0.7230 | 0.060                    | -0.6706 | 0.060                      | -0.5802 |
| 0.080                       | -0.8061 | 0.080                    | -0.6875 | 0.080                      | -0.6002 |
| 0.100                       | -0.7825 | 0.100                    | -0.6923 | 0.100                      | -0.6054 |
| 0.125                       | -0.7212 | 0.125                    | -0.7523 | 0.125                      | -0.6380 |
| 0.150                       | -0.7983 | 0.150                    | -0.7045 | 0.150                      | -0.7170 |
| 0.175                       | -0.7958 | 0.175                    | -0.7834 | 0.175                      | -0.6496 |
| 0.200                       | -0.8546 | 0.200                    | -0.7923 | 0.200                      | -0.6608 |
| 0.250                       | -0.9048 | 0.250                    | -0.8945 | 0.250                      | -0.7428 |
| 0.300                       | -0.8211 | 0.300                    | -0.9100 | 0.300                      | -0.7677 |
| 0.350                       | -0.8042 | 0.350                    | -0.9404 | 0.350                      | -0.7927 |
| 0.400                       | -0.6914 | 0.400                    | -0.8356 | 0.400                      | -0.6022 |
| 0.450                       | -0.5513 | 0.450                    | -0.5547 | 0.450                      | -0.5865 |
| 0.500                       | -0.5267 | 0.500                    | -0.5575 | 0.500                      | -0.5210 |
| 0.550                       | -0.4525 | 0.550                    | -0.5352 | 0.550                      | -0.4604 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4889 | 0.005 | 0.4870 | 0.005 | 0.4253 |
| 0.010 | 0.2313 | 0.010 | 0.2089 | 0.010 | 0.0817 |

Fight 32 Test point 59

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 25000. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 307.9 Rnpu = 2709000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9856  | 0.000                    | 1.0098  | 0.000                      | 0.9857  |
| 0.005                       | 0.2267  | 0.005                    | 0.3125  | 0.005                      | 0.5523  |
| 0.010                       | -0.0599 | 0.010                    | 0.0501  | 0.010                      | 0.2730  |
| 0.020                       | -0.2991 | 0.020                    | -0.2197 | 0.020                      | -0.0757 |
| 0.040                       | -0.4928 | 0.040                    | -0.4051 | 0.040                      | -0.2718 |
| 0.060                       | -0.5540 | 0.060                    | -0.4759 | 0.060                      | -0.3803 |
| 0.080                       | -0.5966 | 0.080                    | -0.5211 | 0.080                      | -0.4228 |
| 0.100                       | -0.6281 | 0.100                    | -0.5508 | 0.100                      | -0.4539 |
| 0.125                       | -0.6025 | 0.125                    | -0.5637 | 0.125                      | -0.4842 |
| 0.150                       | -0.6940 | 0.150                    | -0.6155 | 0.150                      | -0.5248 |
| 0.175                       | -0.5840 | 0.175                    | -0.6638 | 0.175                      | -0.5550 |
| 0.200                       | -0.7635 | 0.200                    | -0.6921 | 0.200                      | -0.5693 |
| 0.250                       | -0.8392 | 0.250                    | -0.7978 | 0.250                      | -0.6306 |
| 0.300                       | -0.8011 | 0.300                    | -0.8296 | 0.300                      | -0.6604 |
| 0.350                       | -0.7473 | 0.350                    | -0.8352 | 0.350                      | -0.6616 |
| 0.400                       | -0.6248 | 0.400                    | -0.6538 | 0.400                      | -0.6139 |
| 0.450                       | -0.5424 | 0.450                    | -0.6081 | 0.450                      | -0.5800 |
| 0.500                       | -0.5210 | 0.500                    | -0.5838 | 0.500                      | -0.5163 |
| 0.550                       | -0.4521 | 0.550                    | -0.5471 | 0.550                      | -0.4583 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3288 | 0.005 | 0.3340  | 0.005 | 0.2513  |
| 0.010 | 0.0297 | 0.010 | -0.0031 | 0.010 | -0.1637 |

Fight 32 Test point 60

Sweep, deg = 20.1 Mach = 0.75 hp, ft = 24900. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 308.4 Rnpu = 2711000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0259  | 0.000                    | 1.0603  | 0.000                      | 1.0529  |
| 0.005                       | 0.1928  | 0.005                    | 0.3054  | 0.005                      | 0.5700  |
| 0.010                       | -0.1020 | 0.010                    | 0.0300  | 0.010                      | 0.2764  |
| 0.020                       | -0.3420 | 0.020                    | -0.2507 | 0.020                      | -0.0911 |
| 0.040                       | -0.5422 | 0.040                    | -0.4424 | 0.040                      | -0.2877 |
| 0.060                       | -0.6135 | 0.060                    | -0.5065 | 0.060                      | -0.4053 |
| 0.080                       | -0.6543 | 0.080                    | -0.5527 | 0.080                      | -0.4415 |
| 0.100                       | -0.6814 | 0.100                    | -0.5824 | 0.100                      | -0.4757 |
| 0.125                       | -0.6252 | 0.125                    | -0.5922 | 0.125                      | -0.4996 |
| 0.150                       | -0.7612 | 0.150                    | -0.6471 | 0.150                      | -0.5369 |
| 0.175                       | -0.7571 | 0.175                    | -0.6933 | 0.175                      | -0.5673 |
| 0.200                       | -0.8387 | 0.200                    | -0.7284 | 0.200                      | -0.5964 |
| 0.250                       | -0.8965 | 0.250                    | -0.8379 | 0.250                      | -0.6642 |
| 0.300                       | -0.9350 | 0.300                    | -0.8809 | 0.300                      | -0.6803 |
| 0.350                       | -0.8931 | 0.350                    | -0.9063 | 0.350                      | -0.7364 |
| 0.400                       | -0.5994 | 0.400                    | -0.9505 | 0.400                      | -0.8368 |
| 0.450                       | -0.5393 | 0.450                    | -0.5530 | 0.450                      | -0.6051 |
| 0.500                       | -0.5185 | 0.500                    | -0.5743 | 0.500                      | -0.5358 |
| 0.550                       | -0.4430 | 0.550                    | -0.5436 | 0.550                      | -0.4723 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4265 | 0.005 | 0.4157 | 0.005 | 0.3193  |
| 0.010 | 0.1295 | 0.010 | 0.0749 | 0.010 | -0.0942 |

Fight 32 Test point 61

Sweep, deg = 20.1 Mach = 0.75 hp, ft = 25300. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 304.6 Rnpu = 2670000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9531  | 0.000                    | 0.9765  | 0.000                      | 0.9691  |
| 0.005                       | -0.0754 | 0.005                    | 0.0155  | 0.005                      | 0.3055  |
| 0.010                       | -0.3780 | 0.010                    | -0.2665 | 0.010                      | -0.0159 |
| 0.020                       | -0.6004 | 0.020                    | -0.5290 | 0.020                      | -0.3989 |
| 0.040                       | -0.7869 | 0.040                    | -0.7048 | 0.040                      | -0.5672 |
| 0.060                       | -0.8416 | 0.060                    | -0.7570 | 0.060                      | -0.6654 |
| 0.080                       | -0.8548 | 0.080                    | -0.7855 | 0.080                      | -0.6801 |
| 0.100                       | -0.8648 | 0.100                    | -0.8024 | 0.100                      | -0.6765 |
| 0.125                       | -0.8049 | 0.125                    | -0.7761 | 0.125                      | -0.6785 |
| 0.150                       | -0.8980 | 0.150                    | -0.8193 | 0.150                      | -0.7531 |
| 0.175                       | -0.8827 | 0.175                    | -0.8266 | 0.175                      | -0.8337 |
| 0.200                       | -0.9593 | 0.200                    | -0.8710 | 0.200                      | -0.7609 |
| 0.250                       | -1.0352 | 0.250                    | -0.9639 | 0.250                      | -0.8097 |
| 0.300                       | -1.0922 | 0.300                    | -1.0117 | 0.300                      | -0.8652 |
| 0.350                       | -1.0183 | 0.350                    | -1.0479 | 0.350                      | -0.8952 |
| 0.400                       | -0.6527 | 0.400                    | -1.1120 | 0.400                      | -0.8700 |
| 0.450                       | -0.5384 | 0.450                    | -0.7133 | 0.450                      | -0.5615 |
| 0.500                       | -0.5241 | 0.500                    | -0.4881 | 0.500                      | -0.5398 |
| 0.550                       | -0.4601 | 0.550                    | -0.5158 | 0.550                      | -0.4756 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5730 | 0.005 | 0.5810 | 0.005 | 0.5185 |
| 0.010 | 0.3158 | 0.010 | 0.2954 | 0.010 | 0.1682 |



Fight 32 Test point 62

Sweep, deg = 20.0 Mach = 0.76 hp, ft = 25300. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 309.0 Rnpu = 2710000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0272  | 0.000                    | 1.0616  | 0.000                      | 1.0480  |
| 0.005                       | 0.1058  | 0.005                    | 0.2080  | 0.005                      | 0.4873  |
| 0.010                       | -0.1952 | 0.010                    | -0.0738 | 0.010                      | 0.1781  |
| 0.020                       | -0.4323 | 0.020                    | -0.3484 | 0.020                      | -0.1990 |
| 0.040                       | -0.6395 | 0.040                    | -0.5433 | 0.040                      | -0.3970 |
| 0.060                       | -0.6833 | 0.060                    | -0.6039 | 0.060                      | -0.5012 |
| 0.080                       | -0.7765 | 0.080                    | -0.6442 | 0.080                      | -0.5296 |
| 0.100                       | -0.7459 | 0.100                    | -0.6586 | 0.100                      | -0.5604 |
| 0.125                       | -0.7102 | 0.125                    | -0.6928 | 0.125                      | -0.5733 |
| 0.150                       | -0.8228 | 0.150                    | -0.6834 | 0.150                      | -0.6437 |
| 0.175                       | -0.8096 | 0.175                    | -0.7524 | 0.175                      | -0.6413 |
| 0.200                       | -0.9105 | 0.200                    | -0.8112 | 0.200                      | -0.6648 |
| 0.250                       | -0.9876 | 0.250                    | -0.8991 | 0.250                      | -0.7605 |
| 0.300                       | -1.0616 | 0.300                    | -0.9530 | 0.300                      | -0.7939 |
| 0.350                       | -1.0400 | 0.350                    | -0.9869 | 0.350                      | -0.8492 |
| 0.400                       | -1.0272 | 0.400                    | -1.0714 | 0.400                      | -0.8456 |
| 0.450                       | -0.4616 | 0.450                    | -1.0645 | 0.450                      | -0.8825 |
| 0.500                       | -0.4579 | 0.500                    | -0.4848 | 0.500                      | -0.5187 |
| 0.550                       | -0.4194 | 0.550                    | -0.4619 | 0.550                      | -0.4713 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5164 | 0.005 | 0.5143 | 0.005 | 0.4297 |
| 0.010 | 0.2413 | 0.010 | 0.1906 | 0.010 | 0.0386 |

Fight 32 Test point 63

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 25000. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 311.2 Rnpu = 2724000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0357  | 0.000                    | 1.0646  | 0.000                      | 1.0480  |
| 0.005                       | 0.2594  | 0.005                    | 0.3682  | 0.005                      | 0.6160  |
| 0.010                       | -0.0335 | 0.010                    | 0.0946  | 0.010                      | 0.3338  |
| 0.020                       | -0.2786 | 0.020                    | -0.1830 | 0.020                      | -0.0292 |
| 0.040                       | -0.4804 | 0.040                    | -0.3826 | 0.040                      | -0.2372 |
| 0.060                       | -0.5614 | 0.060                    | -0.4523 | 0.060                      | -0.3533 |
| 0.080                       | -0.6078 | 0.080                    | -0.5047 | 0.080                      | -0.3996 |
| 0.100                       | -0.6385 | 0.100                    | -0.5377 | 0.100                      | -0.4285 |
| 0.125                       | -0.6054 | 0.125                    | -0.5547 | 0.125                      | -0.4651 |
| 0.150                       | -0.7019 | 0.150                    | -0.6080 | 0.150                      | -0.5090 |
| 0.175                       | -0.7230 | 0.175                    | -0.6572 | 0.175                      | -0.5427 |
| 0.200                       | -0.7981 | 0.200                    | -0.6984 | 0.200                      | -0.5681 |
| 0.250                       | -0.8700 | 0.250                    | -0.8030 | 0.250                      | -0.6363 |
| 0.300                       | -0.9081 | 0.300                    | -0.8557 | 0.300                      | -0.6642 |
| 0.350                       | -0.8909 | 0.350                    | -0.8771 | 0.350                      | -0.7325 |
| 0.400                       | -0.6054 | 0.400                    | -0.9178 | 0.400                      | -0.6305 |
| 0.450                       | -0.5255 | 0.450                    | -0.5261 | 0.450                      | -0.5995 |
| 0.500                       | -0.5105 | 0.500                    | -0.5641 | 0.500                      | -0.5318 |
| 0.550                       | -0.4415 | 0.550                    | -0.5424 | 0.550                      | -0.4632 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3729 | 0.005 | 0.3640 | 0.005 | 0.2708  |
| 0.010 | 0.0717 | 0.010 | 0.0713 | 0.010 | -0.1639 |

Flight 32 Test point 64

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25100. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 349.7 Rnpu = 2883000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9919  | 0.000                    | 1.0105  | 0.000                      | 0.9903  |
| 0.005                       | 0.3604  | 0.005                    | 0.4362  | 0.005                      | 0.6369  |
| 0.010                       | 0.0848  | 0.010                    | 0.1899  | 0.010                      | 0.3774  |
| 0.020                       | -0.1544 | 0.020                    | -0.0835 | 0.020                      | 0.0416  |
| 0.040                       | -0.3550 | 0.040                    | -0.2840 | 0.040                      | -0.1709 |
| 0.060                       | -0.4471 | 0.060                    | -0.3615 | 0.060                      | -0.2929 |
| 0.080                       | -0.4973 | 0.080                    | -0.4211 | 0.080                      | -0.3421 |
| 0.100                       | -0.5241 | 0.100                    | -0.4648 | 0.100                      | -0.3798 |
| 0.125                       | -0.5311 | 0.125                    | -0.4774 | 0.125                      | -0.4284 |
| 0.150                       | -0.6184 | 0.150                    | -0.5225 | 0.150                      | -0.4835 |
| 0.175                       | -0.6493 | 0.175                    | -0.6071 | 0.175                      | -0.5123 |
| 0.200                       | -0.7189 | 0.200                    | -0.6244 | 0.200                      | -0.5258 |
| 0.250                       | -0.8014 | 0.250                    | -0.7430 | 0.250                      | -0.6498 |
| 0.300                       | -0.8592 | 0.300                    | -0.7987 | 0.300                      | -0.6864 |
| 0.350                       | -0.8854 | 0.350                    | -0.8497 | 0.350                      | -0.7514 |
| 0.400                       | -0.8993 | 0.400                    | -0.9367 | 0.400                      | -0.7989 |
| 0.450                       | -0.9198 | 0.450                    | -0.9505 | 0.450                      | -0.8682 |
| 0.500                       | -0.9733 | 0.500                    | -1.0056 | 0.500                      | -0.8942 |
| 0.550                       | -0.4163 | 0.550                    | -1.0287 | 0.550                      | -0.8926 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2707  | 0.005 | 0.2712  | 0.005 | 0.2010  |
| 0.010 | -0.0380 | 0.010 | -0.0773 | 0.010 | -0.2252 |

Fight 32 Test point 65

Sweep, deg = 20.1 Mach = 0.81 hp, ft = 25000. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -4.9 QBAR, lb/ft<sup>2</sup> = 359.7 Rnpu = 2919000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0525  | 0.000                    | 1.0735  | 0.000                      | 1.0555  |
| 0.005                       | 0.4327  | 0.005                    | 0.5221  | 0.005                      | 0.7217  |
| 0.010                       | 0.1507  | 0.010                    | 0.2734  | 0.010                      | 0.4606  |
| 0.020                       | -0.0922 | 0.020                    | -0.0039 | 0.020                      | 0.1239  |
| 0.040                       | -0.3065 | 0.040                    | -0.2130 | 0.040                      | -0.0898 |
| 0.060                       | -0.4048 | 0.060                    | -0.3007 | 0.060                      | -0.2206 |
| 0.080                       | -0.4584 | 0.080                    | -0.3651 | 0.080                      | -0.2844 |
| 0.100                       | -0.5113 | 0.100                    | -0.4058 | 0.100                      | -0.3174 |
| 0.125                       | -0.5309 | 0.125                    | -0.4250 | 0.125                      | -0.3661 |
| 0.150                       | -0.5915 | 0.150                    | -0.4772 | 0.150                      | -0.4286 |
| 0.175                       | -0.6235 | 0.175                    | -0.5570 | 0.175                      | -0.4602 |
| 0.200                       | -0.7055 | 0.200                    | -0.5828 | 0.200                      | -0.4785 |
| 0.250                       | -0.7930 | 0.250                    | -0.7048 | 0.250                      | -0.5901 |
| 0.300                       | -0.8703 | 0.300                    | -0.7652 | 0.300                      | -0.6326 |
| 0.350                       | -0.8929 | 0.350                    | -0.8251 | 0.350                      | -0.7274 |
| 0.400                       | -0.9191 | 0.400                    | -0.9073 | 0.400                      | -0.7738 |
| 0.450                       | -0.9406 | 0.450                    | -0.9356 | 0.450                      | -0.8317 |
| 0.500                       | -1.0176 | 0.500                    | -0.9956 | 0.500                      | -0.8585 |
| 0.550                       | -0.4414 | 0.550                    | -1.0299 | 0.550                      | -0.8974 |

| Lower surface |         |       |         |       |         |
|---------------|---------|-------|---------|-------|---------|
| 0.005         | 0.3009  | 0.005 | 0.2961  | 0.005 | 0.2270  |
| 0.010         | -0.0164 | 0.010 | -0.0674 | 0.010 | -0.2100 |

Fight 32 Test point 66

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 354.8 Rnpu = 2920000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0059  | 0.000                    | 1.0216  | 0.000                      | 1.0039  |
| 0.005                       | 0.3036  | 0.005                    | 0.3861  | 0.005                      | 0.5979  |
| 0.010                       | 0.0197  | 0.010                    | 0.1314  | 0.010                      | 0.3321  |
| 0.020                       | -0.2180 | 0.020                    | -0.1371 | 0.020                      | -0.0146 |
| 0.040                       | -0.4104 | 0.040                    | -0.3389 | 0.040                      | -0.2172 |
| 0.060                       | -0.5015 | 0.060                    | -0.4159 | 0.060                      | -0.3405 |
| 0.080                       | -0.4982 | 0.080                    | -0.4684 | 0.080                      | -0.3847 |
| 0.100                       | -0.6051 | 0.100                    | -0.4980 | 0.100                      | -0.4153 |
| 0.125                       | -0.5833 | 0.125                    | -0.5631 | 0.125                      | -0.4570 |
| 0.150                       | -0.6582 | 0.150                    | -0.5514 | 0.150                      | -0.5439 |
| 0.175                       | -0.6831 | 0.175                    | -0.6137 | 0.175                      | -0.5939 |
| 0.200                       | -0.7637 | 0.200                    | -0.6649 | 0.200                      | -0.5385 |
| 0.250                       | -0.8486 | 0.250                    | -0.7666 | 0.250                      | -0.6575 |
| 0.300                       | -0.9169 | 0.300                    | -0.8309 | 0.300                      | -0.7249 |
| 0.350                       | -0.9279 | 0.350                    | -0.8906 | 0.350                      | -0.7999 |
| 0.400                       | -0.9233 | 0.400                    | -0.9665 | 0.400                      | -0.8393 |
| 0.450                       | -0.9489 | 0.450                    | -0.9874 | 0.450                      | -0.9033 |
| 0.500                       | -1.0545 | 0.500                    | -1.0429 | 0.500                      | -0.9349 |
| 0.550                       | -0.5661 | 0.550                    | -0.7542 | 0.550                      | -0.9095 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3487 | 0.005 | 0.3422 | 0.005 | 0.2706  |
| 0.010 | 0.0494 | 0.010 | 0.0047 | 0.010 | -0.1413 |

Flight 32 Test point 67

Sweep, deg = 20.0 Mach = 0.81 hp, ft = 24900. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -5.3 QBAR, lb/ft<sup>2</sup> = 358.8 Rnpu = 2948000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0569  | 0.000                    | 1.0841  | 0.000                      | 1.0620  |
| 0.005                       | 0.3559  | 0.005                    | 0.4574  | 0.005                      | 0.6736  |
| 0.010                       | 0.0722  | 0.010                    | 0.1975  | 0.010                      | 0.4017  |
| 0.020                       | -0.1708 | 0.020                    | -0.0763 | 0.020                      | 0.0522  |
| 0.040                       | -0.3789 | 0.040                    | -0.2857 | 0.040                      | -0.1592 |
| 0.060                       | -0.4676 | 0.060                    | -0.3693 | 0.060                      | -0.2847 |
| 0.080                       | -0.4956 | 0.080                    | -0.4308 | 0.080                      | -0.3374 |
| 0.100                       | -0.5804 | 0.100                    | -0.4635 | 0.100                      | -0.3756 |
| 0.125                       | -0.5513 | 0.125                    | -0.5059 | 0.125                      | -0.4112 |
| 0.150                       | -0.6390 | 0.150                    | -0.5264 | 0.150                      | -0.4887 |
| 0.175                       | -0.6613 | 0.175                    | -0.5852 | 0.175                      | -0.4964 |
| 0.200                       | -0.7482 | 0.200                    | -0.6404 | 0.200                      | -0.5277 |
| 0.250                       | -0.8359 | 0.250                    | -0.7429 | 0.250                      | -0.6262 |
| 0.300                       | -0.9191 | 0.300                    | -0.8134 | 0.300                      | -0.6784 |
| 0.350                       | -0.9355 | 0.350                    | -0.8601 | 0.350                      | -0.7689 |
| 0.400                       | -0.9540 | 0.400                    | -0.9466 | 0.400                      | -0.8061 |
| 0.450                       | -0.9707 | 0.450                    | -0.9686 | 0.450                      | -0.8558 |
| 0.500                       | -1.0624 | 0.500                    | -1.0336 | 0.500                      | -0.8919 |
| 0.550                       | -0.4127 | 0.550                    | -0.8974 | 0.550                      | -0.9223 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3706 | 0.005 | 0.3635 | 0.005 | 0.2867  |
| 0.010 | 0.0700 | 0.010 | 0.0099 | 0.010 | -0.1377 |

Fight 32 Test point 68

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 355.4 Rnpu = 2936000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9968  | 0.000                    | 1.0140  | 0.000                      | 0.9995  |
| 0.005                       | 0.1273  | 0.005                    | 0.2199  | 0.005                      | 0.4652  |
| 0.010                       | -0.1641 | 0.010                    | -0.0434 | 0.010                      | 0.1738  |
| 0.020                       | -0.3899 | 0.020                    | -0.3068 | 0.020                      | -0.1901 |
| 0.040                       | -0.5957 | 0.040                    | -0.5026 | 0.040                      | -0.3804 |
| 0.060                       | -0.6612 | 0.060                    | -0.5677 | 0.060                      | -0.5027 |
| 0.080                       | -0.6790 | 0.080                    | -0.6143 | 0.080                      | -0.5499 |
| 0.100                       | -0.7267 | 0.100                    | -0.6537 | 0.100                      | -0.5595 |
| 0.125                       | -0.6935 | 0.125                    | -0.6629 | 0.125                      | -0.5296 |
| 0.150                       | -0.7879 | 0.150                    | -0.7096 | 0.150                      | -0.6147 |
| 0.175                       | -0.7913 | 0.175                    | -0.7422 | 0.175                      | -0.7032 |
| 0.200                       | -0.8598 | 0.200                    | -0.7622 | 0.200                      | -0.7309 |
| 0.250                       | -0.9447 | 0.250                    | -0.8509 | 0.250                      | -0.7570 |
| 0.300                       | -1.0232 | 0.300                    | -0.9187 | 0.300                      | -0.8095 |
| 0.350                       | -1.0301 | 0.350                    | -0.9765 | 0.350                      | -0.8840 |
| 0.400                       | -1.0478 | 0.400                    | -1.0501 | 0.400                      | -0.9330 |
| 0.450                       | -1.0578 | 0.450                    | -1.0746 | 0.450                      | -0.9839 |
| 0.500                       | -1.1369 | 0.500                    | -0.8036 | 0.500                      | -1.0092 |
| 0.550                       | -0.4709 | 0.550                    | -0.4357 | 0.550                      | -0.7409 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.5073 | 0.005 | 0.4938 | 0.005 | 0.4328 |
| 0.010         | 0.2352 | 0.010 | 0.1953 | 0.010 | 0.0609 |

Fight 32 Test point 69

Sweep, deg = 20.0 Mach = 0.81 hp, ft = 25300. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -5.3 QBAR, lb/ft<sup>2</sup> = 355.2 Rnpu = 2916000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0633  | 0.000                    | 1.0868  | 0.000                      | 1.0674  |
| 0.005                       | 0.2424  | 0.005                    | 0.3568  | 0.005                      | 0.5928  |
| 0.010                       | -0.0459 | 0.010                    | 0.0916  | 0.010                      | 0.3056  |
| 0.020                       | -0.2795 | 0.020                    | -0.1854 | 0.020                      | -0.0552 |
| 0.040                       | -0.4915 | 0.040                    | -0.3900 | 0.040                      | -0.2582 |
| 0.060                       | -0.5742 | 0.060                    | -0.4615 | 0.060                      | -0.3833 |
| 0.080                       | -0.6214 | 0.080                    | -0.5335 | 0.080                      | -0.4238 |
| 0.100                       | -0.6421 | 0.100                    | -0.5633 | 0.100                      | -0.4491 |
| 0.125                       | -0.6301 | 0.125                    | -0.5595 | 0.125                      | -0.4659 |
| 0.150                       | -0.7285 | 0.150                    | -0.6307 | 0.150                      | -0.5394 |
| 0.175                       | -0.7319 | 0.175                    | -0.6506 | 0.175                      | -0.6194 |
| 0.200                       | -0.8076 | 0.200                    | -0.6872 | 0.200                      | -0.6559 |
| 0.250                       | -0.9004 | 0.250                    | -0.7926 | 0.250                      | -0.6695 |
| 0.300                       | -0.9787 | 0.300                    | -0.8599 | 0.300                      | -0.7413 |
| 0.350                       | -0.9943 | 0.350                    | -0.9123 | 0.350                      | -0.8137 |
| 0.400                       | -1.0141 | 0.400                    | -0.9995 | 0.400                      | -0.8666 |
| 0.450                       | -0.7116 | 0.450                    | -1.0261 | 0.450                      | -0.9056 |
| 0.500                       | -0.4593 | 0.500                    | -0.9502 | 0.500                      | -0.9425 |
| 0.550                       | -0.4007 | 0.550                    | -0.4179 | 0.550                      | -0.9400 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4892 | 0.005 | 0.4706 | 0.005 | 0.3990  |
| 0.010 | 0.2049 | 0.010 | 0.1426 | 0.010 | -0.0034 |



Fight 32 Test point 70

Sweep, deg = 25.4 Mach = 0.81 hp, ft = 25000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 357.4 Rnpu = 2918000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9223  | 0.000                    | 0.9228  | 0.000                      | 0.9132  |
| 0.005                       | 0.0927  | 0.005                    | 0.1604  | 0.005                      | 0.3915  |
| 0.010                       | -0.1881 | 0.010                    | -0.0913 | 0.010                      | 0.1094  |
| 0.020                       | -0.3998 | 0.020                    | -0.3358 | 0.020                      | -0.2315 |
| 0.040                       | -0.5918 | 0.040                    | -0.5261 | 0.040                      | -0.4053 |
| 0.060                       | -0.6427 | 0.060                    | -0.5831 | 0.060                      | -0.5096 |
| 0.080                       | -0.7050 | 0.080                    | -0.6218 | 0.080                      | -0.5536 |
| 0.100                       | -0.6883 | 0.100                    | -0.6431 | 0.100                      | -0.5170 |
| 0.125                       | -0.6600 | 0.125                    | -0.6499 | 0.125                      | -0.5352 |
| 0.150                       | -0.7499 | 0.150                    | -0.6633 | 0.150                      | -0.6288 |
| 0.175                       | -0.7548 | 0.175                    | -0.6960 | 0.175                      | -0.7292 |
| 0.200                       | -0.8225 | 0.200                    | -0.7328 | 0.200                      | -0.6814 |
| 0.250                       | -0.8959 | 0.250                    | -0.8404 | 0.250                      | -0.7328 |
| 0.300                       | -0.9572 | 0.300                    | -0.8837 | 0.300                      | -0.7815 |
| 0.350                       | -0.9358 | 0.350                    | -0.9436 | 0.350                      | -0.8624 |
| 0.400                       | -0.9672 | 0.400                    | -1.0082 | 0.400                      | -0.9016 |
| 0.450                       | -0.9811 | 0.450                    | -1.0356 | 0.450                      | -0.9663 |
| 0.500                       | -1.0261 | 0.500                    | -1.0889 | 0.500                      | -0.9391 |
| 0.550                       | -0.4350 | 0.550                    | -0.4842 | 0.550                      | -0.5224 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4529 | 0.005 | 0.4426 | 0.005 | 0.3892 |
| 0.010 | 0.1934 | 0.010 | 0.1570 | 0.010 | 0.0443 |

Fight 32 Test point 71

Sweep, deg = 25.4 Mach = 0.81 hp, ft = 25000. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 359.2 Rnpu = 2946000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9248  | 0.000                    | 0.9318  | 0.000                      | 0.9141  |
| 0.005                       | 0.3003  | 0.005                    | 0.3604  | 0.005                      | 0.5562  |
| 0.010                       | 0.0309  | 0.010                    | 0.1265  | 0.010                      | 0.3095  |
| 0.020                       | -0.1969 | 0.020                    | -0.1266 | 0.020                      | -0.0141 |
| 0.040                       | -0.3699 | 0.040                    | -0.3142 | 0.040                      | -0.2036 |
| 0.060                       | -0.4571 | 0.060                    | -0.3854 | 0.060                      | -0.3125 |
| 0.080                       | -0.5036 | 0.080                    | -0.4305 | 0.080                      | -0.3583 |
| 0.100                       | -0.5221 | 0.100                    | -0.4697 | 0.100                      | -0.3913 |
| 0.125                       | -0.5120 | 0.125                    | -0.4727 | 0.125                      | -0.4483 |
| 0.150                       | -0.6084 | 0.150                    | -0.5323 | 0.150                      | -0.5236 |
| 0.175                       | -0.6339 | 0.175                    | -0.5974 | 0.175                      | -0.5082 |
| 0.200                       | -0.6981 | 0.200                    | -0.6107 | 0.200                      | -0.5161 |
| 0.250                       | -0.7733 | 0.250                    | -0.7286 | 0.250                      | -0.6337 |
| 0.300                       | -0.8339 | 0.300                    | -0.7786 | 0.300                      | -0.6819 |
| 0.350                       | -0.8281 | 0.350                    | -0.8364 | 0.350                      | -0.7530 |
| 0.400                       | -0.7296 | 0.400                    | -0.9090 | 0.400                      | -0.8019 |
| 0.450                       | -0.7428 | 0.450                    | -0.9212 | 0.450                      | -0.8524 |
| 0.500                       | -0.8119 | 0.500                    | -0.9662 | 0.500                      | -0.8833 |
| 0.550                       | -0.4224 | 0.550                    | -0.7154 | 0.550                      | -0.5291 |

| Lower surface |         |       |         |       |         |
|---------------|---------|-------|---------|-------|---------|
| 0.005         | 0.2616  | 0.005 | 0.2558  | 0.005 | 0.1891  |
| 0.010         | -0.0326 | 0.010 | -0.0684 | 0.010 | -0.2066 |

Fight 32 Test point 72

Sweep, deg = 25.4 Mach = 0.81 hp, ft = 25100. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 356.3 Rnpu = 2926000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9296  | 0.000                    | 0.9355  | 0.000                      | 0.9212  |
| 0.005                       | 0.2407  | 0.005                    | 0.3016  | 0.005                      | 0.5116  |
| 0.010                       | -0.0307 | 0.010                    | 0.0607  | 0.010                      | 0.2525  |
| 0.020                       | -0.2553 | 0.020                    | -0.1876 | 0.020                      | -0.0779 |
| 0.040                       | -0.4231 | 0.040                    | -0.3766 | 0.040                      | -0.2632 |
| 0.060                       | -0.5109 | 0.060                    | -0.4365 | 0.060                      | -0.3699 |
| 0.080                       | -0.5351 | 0.080                    | -0.4844 | 0.080                      | -0.4032 |
| 0.100                       | -0.5959 | 0.100                    | -0.5040 | 0.100                      | -0.4255 |
| 0.125                       | -0.5697 | 0.125                    | -0.5785 | 0.125                      | -0.4814 |
| 0.150                       | -0.6354 | 0.150                    | -0.5517 | 0.150                      | -0.5632 |
| 0.175                       | -0.6666 | 0.175                    | -0.6287 | 0.175                      | -0.5978 |
| 0.200                       | -0.7283 | 0.200                    | -0.6542 | 0.200                      | -0.5550 |
| 0.250                       | -0.8110 | 0.250                    | -0.7606 | 0.250                      | -0.6587 |
| 0.300                       | -0.8729 | 0.300                    | -0.8121 | 0.300                      | -0.7146 |
| 0.350                       | -0.8765 | 0.350                    | -0.8721 | 0.350                      | -0.7732 |
| 0.400                       | -0.8784 | 0.400                    | -0.9407 | 0.400                      | -0.8313 |
| 0.450                       | -0.7259 | 0.450                    | -0.9517 | 0.450                      | -0.8971 |
| 0.500                       | -0.8170 | 0.500                    | -1.0035 | 0.500                      | -0.9180 |
| 0.550                       | -0.4355 | 0.550                    | -0.6695 | 0.550                      | -0.5814 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3268 | 0.005 | 0.3160 | 0.005 | 0.2556  |
| 0.010 | 0.0464 | 0.010 | 0.0049 | 0.010 | -0.1261 |

Fight 32 Test point 73

Sweep, deg = 30.5 Mach = 0.80 hp, ft = 25200. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 348.1 Rnpu = 2884000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8195  | 0.000                    | 0.8083  | 0.000                      | 0.7966  |
| 0.005                       | -0.0790 | 0.005                    | -0.0378 | 0.005                      | 0.1968  |
| 0.010                       | -0.3622 | 0.010                    | -0.2650 | 0.010                      | -0.0866 |
| 0.020                       | -0.5766 | 0.020                    | -0.5025 | 0.020                      | -0.4091 |
| 0.040                       | -0.6902 | 0.040                    | -0.6176 | 0.040                      | -0.5535 |
| 0.060                       | -0.7136 | 0.060                    | -0.6880 | 0.060                      | -0.6721 |
| 0.080                       | -0.7710 | 0.080                    | -0.7308 | 0.080                      | -0.6521 |
| 0.100                       | -0.7616 | 0.100                    | -0.7302 | 0.100                      | -0.6587 |
| 0.125                       | -0.6952 | 0.125                    | -0.7354 | 0.125                      | -0.5927 |
| 0.150                       | -0.7906 | 0.150                    | -0.7336 | 0.150                      | -0.6996 |
| 0.175                       | -0.7822 | 0.175                    | -0.7632 | 0.175                      | -0.7810 |
| 0.200                       | -0.8342 | 0.200                    | -0.7889 | 0.200                      | -0.7443 |
| 0.250                       | -0.8939 | 0.250                    | -0.8640 | 0.250                      | -0.7957 |
| 0.300                       | -0.9213 | 0.300                    | -0.8966 | 0.300                      | -0.8204 |
| 0.350                       | -0.7650 | 0.350                    | -0.9481 | 0.350                      | -0.8744 |
| 0.400                       | -0.7656 | 0.400                    | -1.0019 | 0.400                      | -0.9015 |
| 0.450                       | -0.7821 | 0.450                    | -1.0003 | 0.450                      | -0.9442 |
| 0.500                       | -0.4951 | 0.500                    | -0.4978 | 0.500                      | -0.3793 |
| 0.550                       | -0.4096 | 0.550                    | -0.4114 | 0.550                      | -0.3606 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.4879 | 0.005 | 0.4915 | 0.005 | 0.4527 |
| 0.010         | 0.2570 | 0.010 | 0.2505 | 0.010 | 0.1734 |

Fight 33 Test point 1

Sweep, deg = 23.4 Mach = 0.60 hp, ft = 10000. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 369.2 Rnpu = 3548000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8971  | 0.000                    | 0.9159  | 0.000                      | 0.9127  |
| 0.005                       | -0.0785 | 0.005                    | 0.0373  | 0.005                      | 0.3518  |
| 0.010                       | -0.3447 | 0.010                    | -0.2188 | 0.010                      | 0.0625  |
| 0.020                       | -0.5215 | 0.020                    | -0.4355 | 0.020                      | -0.2614 |
| 0.040                       | -0.5856 | 0.040                    | -0.5311 | 0.040                      | -0.3848 |
| 0.060                       | -0.6032 | 0.060                    | -0.5372 | 0.060                      | -0.4405 |
| 0.080                       | -0.6136 | 0.080                    | -0.5443 | 0.080                      | -0.4481 |
| 0.100                       | -0.6108 | 0.100                    | -0.5338 | 0.100                      | -0.4549 |
| 0.125                       | -0.5384 | 0.125                    | -0.5389 | 0.125                      | -0.4551 |
| 0.150                       | -0.6101 | 0.150                    | -0.5576 | 0.150                      | -0.4503 |
| 0.175                       | -0.5882 | 0.175                    | -0.5692 | 0.175                      | -0.4699 |
| 0.200                       | -0.6195 | 0.200                    | -0.5763 | 0.200                      | -0.4644 |
| 0.250                       | -0.6151 | 0.250                    | -0.6010 | 0.250                      | -0.4963 |
| 0.300                       | -0.5971 | 0.300                    | -0.5813 | 0.300                      | -0.4921 |
| 0.350                       | -0.5479 | 0.350                    | -0.5524 | 0.350                      | -0.4931 |
| 0.400                       | -0.5067 | 0.400                    | -0.5429 | 0.400                      | -0.4819 |
| 0.450                       | -0.4551 | 0.450                    | -0.4991 | 0.450                      | -0.4609 |
| 0.500                       | -0.4460 | 0.500                    | -0.4848 | 0.500                      | -0.4363 |
| 0.550                       | -0.3948 | 0.550                    | -0.4785 | 0.550                      | -0.4459 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4308 | 0.005 | 0.4254 | 0.005 | 0.3057  |
| 0.010 | 0.1668 | 0.010 | 0.1304 | 0.010 | -0.0548 |

Fight 33 Test point 2

Sweep, deg = 23.4 Mach = 0.60 hp, ft = 10000. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -5.2 QBAR, lb/ft<sup>2</sup> = 369.6 Rnpu = 3547000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9525  | 0.000                    | 0.9841  | 0.000                      | 0.9717  |
| 0.005                       | -0.0224 | 0.005                    | 0.1321  | 0.005                      | 0.4505  |
| 0.010                       | -0.2989 | 0.010                    | -0.1397 | 0.010                      | 0.1565  |
| 0.020                       | -0.4870 | 0.020                    | -0.3725 | 0.020                      | -0.1817 |
| 0.040                       | -0.5719 | 0.040                    | -0.4972 | 0.040                      | -0.3325 |
| 0.060                       | -0.5986 | 0.060                    | -0.5074 | 0.060                      | -0.3961 |
| 0.080                       | -0.6111 | 0.080                    | -0.5128 | 0.080                      | -0.4116 |
| 0.100                       | -0.6047 | 0.100                    | -0.5206 | 0.100                      | -0.4255 |
| 0.125                       | -0.5325 | 0.125                    | -0.5246 | 0.125                      | -0.4319 |
| 0.150                       | -0.6060 | 0.150                    | -0.5444 | 0.150                      | -0.4459 |
| 0.175                       | -0.5886 | 0.175                    | -0.5549 | 0.175                      | -0.4595 |
| 0.200                       | -0.6215 | 0.200                    | -0.5688 | 0.200                      | -0.4605 |
| 0.250                       | -0.6197 | 0.250                    | -0.5939 | 0.250                      | -0.4865 |
| 0.300                       | -0.6020 | 0.300                    | -0.5821 | 0.300                      | -0.4718 |
| 0.350                       | -0.5490 | 0.350                    | -0.5547 | 0.350                      | -0.4846 |
| 0.400                       | -0.5030 | 0.400                    | -0.5453 | 0.400                      | -0.4767 |
| 0.450                       | -0.4518 | 0.450                    | -0.4945 | 0.450                      | -0.4597 |
| 0.500                       | -0.4470 | 0.500                    | -0.4813 | 0.500                      | -0.4358 |
| 0.550                       | -0.3892 | 0.550                    | -0.4773 | 0.550                      | -0.4380 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.4447 | 0.005 | 0.4153 | 0.005 | 0.2746  |
| 0.010         | 0.1776 | 0.010 | 0.1005 | 0.010 | -0.1171 |

Fight 33 Test point 3

Sweep, deg = 23.4 Mach = 0.61 hp, ft = 9800. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 377.1 Rnpu = 3593000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9058  | 0.000                    | 0.9250  | 0.000                      | 0.9097  |
| 0.005                       | 0.0490  | 0.005                    | 0.1532  | 0.005                      | 0.4385  |
| 0.010                       | -0.2186 | 0.010                    | -0.0970 | 0.010                      | 0.1625  |
| 0.020                       | -0.4107 | 0.020                    | -0.3244 | 0.020                      | -0.1559 |
| 0.040                       | -0.5009 | 0.040                    | -0.4470 | 0.040                      | -0.3001 |
| 0.060                       | -0.5282 | 0.060                    | -0.4685 | 0.060                      | -0.3699 |
| 0.080                       | -0.5487 | 0.080                    | -0.4859 | 0.080                      | -0.3859 |
| 0.100                       | -0.5507 | 0.100                    | -0.4899 | 0.100                      | -0.3985 |
| 0.125                       | -0.4989 | 0.125                    | -0.4926 | 0.125                      | -0.4015 |
| 0.150                       | -0.5633 | 0.150                    | -0.5046 | 0.150                      | -0.4077 |
| 0.175                       | -0.5504 | 0.175                    | -0.5264 | 0.175                      | -0.4286 |
| 0.200                       | -0.5808 | 0.200                    | -0.5373 | 0.200                      | -0.4281 |
| 0.250                       | -0.5838 | 0.250                    | -0.5658 | 0.250                      | -0.4680 |
| 0.300                       | -0.5698 | 0.300                    | -0.5518 | 0.300                      | -0.4641 |
| 0.350                       | -0.5298 | 0.350                    | -0.5279 | 0.350                      | -0.4707 |
| 0.400                       | -0.4867 | 0.400                    | -0.5188 | 0.400                      | -0.4593 |
| 0.450                       | -0.4394 | 0.450                    | -0.4775 | 0.450                      | -0.4441 |
| 0.500                       | -0.4342 | 0.500                    | -0.4686 | 0.500                      | -0.4220 |
| 0.550                       | -0.3855 | 0.550                    | -0.4662 | 0.550                      | -0.4366 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3360 | 0.005 | 0.3293 | 0.005 | 0.2014  |
| 0.010 | 0.0649 | 0.010 | 0.0240 | 0.010 | -0.1736 |

Fight 33 Test point 4

Sweep, deg = 23.4 Mach = 0.60 hp, ft = 9800. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -5.2 QBAR, lb/ft<sup>2</sup> = 370.8 Rrho = 3556000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9626  | 0.000                    | 0.9901  | 0.000                      | 0.9699  |
| 0.005                       | 0.1237  | 0.005                    | 0.2586  | 0.005                      | 0.5518  |
| 0.010                       | -0.1497 | 0.010                    | -0.0025 | 0.010                      | 0.2731  |
| 0.020                       | -0.3559 | 0.020                    | -0.2459 | 0.020                      | -0.0621 |
| 0.040                       | -0.4649 | 0.040                    | -0.3841 | 0.040                      | -0.2285 |
| 0.060                       | -0.5050 | 0.060                    | -0.4185 | 0.060                      | -0.3071 |
| 0.080                       | -0.5289 | 0.080                    | -0.4419 | 0.080                      | -0.3290 |
| 0.100                       | -0.5352 | 0.100                    | -0.4575 | 0.100                      | -0.3516 |
| 0.125                       | -0.4802 | 0.125                    | -0.4550 | 0.125                      | -0.3648 |
| 0.150                       | -0.5526 | 0.150                    | -0.4819 | 0.150                      | -0.3911 |
| 0.175                       | -0.5416 | 0.175                    | -0.5027 | 0.175                      | -0.4115 |
| 0.200                       | -0.5786 | 0.200                    | -0.5146 | 0.200                      | -0.4128 |
| 0.250                       | -0.5786 | 0.250                    | -0.5520 | 0.250                      | -0.4469 |
| 0.300                       | -0.5617 | 0.300                    | -0.5411 | 0.300                      | -0.4422 |
| 0.350                       | -0.5184 | 0.350                    | -0.5177 | 0.350                      | -0.4575 |
| 0.400                       | -0.4787 | 0.400                    | -0.5117 | 0.400                      | -0.4490 |
| 0.450                       | -0.4313 | 0.450                    | -0.4688 | 0.450                      | -0.4307 |
| 0.500                       | -0.4247 | 0.500                    | -0.4609 | 0.500                      | -0.4059 |
| 0.550                       | -0.3756 | 0.550                    | -0.4584 | 0.550                      | -0.4213 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3263 | 0.005 | 0.2950  | 0.005 | 0.1371  |
| 0.010 | 0.0459 | 0.010 | -0.0385 | 0.010 | -0.2761 |



Flight 33 Test point 5

Sweep, deg = 20.0 Mach = 0.60 hp, ft = 9900. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 370.6 Rnpu = 3554000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9321  | 0.000                    | 0.9640  | 0.000                      | 0.9547  |
| 0.005                       | -0.0774 | 0.005                    | 0.0450  | 0.005                      | 0.3746  |
| 0.010                       | -0.3563 | 0.010                    | -0.2254 | 0.010                      | 0.0733  |
| 0.020                       | -0.5434 | 0.020                    | -0.4518 | 0.020                      | -0.2647 |
| 0.040                       | -0.6187 | 0.040                    | -0.5481 | 0.040                      | -0.3996 |
| 0.060                       | -0.6374 | 0.060                    | -0.5506 | 0.060                      | -0.4595 |
| 0.080                       | -0.6472 | 0.080                    | -0.5651 | 0.080                      | -0.4648 |
| 0.100                       | -0.6445 | 0.100                    | -0.5656 | 0.100                      | -0.4720 |
| 0.125                       | -0.5679 | 0.125                    | -0.5664 | 0.125                      | -0.4715 |
| 0.150                       | -0.6417 | 0.150                    | -0.5800 | 0.150                      | -0.4860 |
| 0.175                       | -0.6143 | 0.175                    | -0.5978 | 0.175                      | -0.4969 |
| 0.200                       | -0.6521 | 0.200                    | -0.6020 | 0.200                      | -0.4855 |
| 0.250                       | -0.6432 | 0.250                    | -0.6303 | 0.250                      | -0.5207 |
| 0.300                       | -0.6279 | 0.300                    | -0.6124 | 0.300                      | -0.5110 |
| 0.350                       | -0.5742 | 0.350                    | -0.5803 | 0.350                      | -0.5148 |
| 0.400                       | -0.5275 | 0.400                    | -0.5650 | 0.400                      | -0.5020 |
| 0.450                       | -0.4726 | 0.450                    | -0.5196 | 0.450                      | -0.4814 |
| 0.500                       | -0.4610 | 0.500                    | -0.5037 | 0.500                      | -0.4514 |
| 0.550                       | -0.4101 | 0.550                    | -0.4938 | 0.550                      | -0.4573 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4554 | 0.005 | 0.4487 | 0.005 | 0.3246  |
| 0.010 | 0.1906 | 0.010 | 0.1485 | 0.010 | -0.0472 |

Fight 33 Test point 6

Sweep, deg = 20.0 Mach = 0.60 hp, ft = 9900. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -5.2 QBAR, lb/ft<sup>2</sup> = 369.4 Rrho = 3548000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9917  | 0.000                    | 1.0290  | 0.000                      | 1.0134  |
| 0.005                       | 0.0745  | 0.005                    | 0.2180  | 0.005                      | 0.5323  |
| 0.010                       | -0.2111 | 0.010                    | -0.0581 | 0.010                      | 0.2364  |
| 0.020                       | -0.4211 | 0.020                    | -0.3011 | 0.020                      | -0.1116 |
| 0.040                       | -0.5282 | 0.040                    | -0.4118 | 0.040                      | -0.2714 |
| 0.060                       | -0.5656 | 0.060                    | -0.4571 | 0.060                      | -0.3507 |
| 0.080                       | -0.5888 | 0.080                    | -0.4801 | 0.080                      | -0.3738 |
| 0.100                       | -0.5882 | 0.100                    | -0.4911 | 0.100                      | -0.3874 |
| 0.125                       | -0.5265 | 0.125                    | -0.4991 | 0.125                      | -0.4045 |
| 0.150                       | -0.5946 | 0.150                    | -0.5206 | 0.150                      | -0.4233 |
| 0.175                       | -0.5768 | 0.175                    | -0.5404 | 0.175                      | -0.4401 |
| 0.200                       | -0.6113 | 0.200                    | -0.5537 | 0.200                      | -0.4426 |
| 0.250                       | -0.6153 | 0.250                    | -0.5864 | 0.250                      | -0.4779 |
| 0.300                       | -0.6028 | 0.300                    | -0.5813 | 0.300                      | -0.4674 |
| 0.350                       | -0.5501 | 0.350                    | -0.5535 | 0.350                      | -0.4875 |
| 0.400                       | -0.5056 | 0.400                    | -0.5484 | 0.400                      | -0.4760 |
| 0.450                       | -0.4520 | 0.450                    | -0.4946 | 0.450                      | -0.4577 |
| 0.500                       | -0.4400 | 0.500                    | -0.4841 | 0.500                      | -0.4311 |
| 0.550                       | -0.3907 | 0.550                    | -0.4812 | 0.550                      | -0.4425 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3952 | 0.005 | 0.3693 | 0.005 | 0.2162  |
| 0.010 | 0.1215 | 0.010 | 0.0349 | 0.010 | -0.2034 |

Fight 33 Test point 7

Sweep, deg = 20.0 Mach = 0.60 hp, ft = 9700. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 376.4 Rnpu = 3595000.

| BL 200.8<br>Inboard station |         | Upper surface<br>BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|---|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                                       | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9492  | 0.000                                     | 0.9758  | 0.000                      | 0.9571  |
| 0.005                       | 0.7217  | 0.005                                     | 0.2340  | 0.005                      | 0.5177  |
| 0.010                       | -0.1552 | 0.010                                     | -0.0285 | 0.010                      | 0.2341  |
| 0.020                       | -0.3657 | 0.020                                     | -0.2731 | 0.020                      | -0.0985 |
| 0.040                       | -0.4740 | 0.040                                     | -0.4077 | 0.040                      | -0.2613 |
| 0.060                       | -0.5136 | 0.060                                     | -0.4287 | 0.060                      | -0.3371 |
| 0.080                       | -0.5384 | 0.080                                     | -0.4547 | 0.080                      | -0.3618 |
| 0.100                       | -0.5487 | 0.100                                     | -0.4686 | 0.100                      | -0.3808 |
| 0.125                       | -0.4978 | 0.125                                     | -0.4783 | 0.125                      | -0.3913 |
| 0.150                       | -0.5653 | 0.150                                     | -0.5015 | 0.150                      | -0.4122 |
| 0.175                       | -0.5563 | 0.175                                     | -0.5255 | 0.175                      | -0.4268 |
| 0.200                       | -0.5681 | 0.200                                     | -0.5420 | 0.200                      | -0.4259 |
| 0.250                       | -0.5896 | 0.250                                     | -0.5744 | 0.250                      | -0.4652 |
| 0.300                       | -0.5796 | 0.300                                     | -0.5611 | 0.300                      | -0.4690 |
| 0.350                       | -0.5345 | 0.350                                     | -0.5370 | 0.350                      | -0.4781 |
| 0.400                       | -0.4957 | 0.400                                     | -0.5316 | 0.400                      | -0.4680 |
| 0.450                       | -0.4465 | 0.450                                     | -0.4890 | 0.450                      | -0.4511 |
| 0.500                       | -0.4403 | 0.500                                     | -0.4806 | 0.500                      | -0.4294 |
| 0.550                       | -0.3934 | 0.550                                     | -0.4741 | 0.550                      | -0.4402 |

|       |        | Lower surface |         |       |         |
|-------|--------|---------------|---------|-------|---------|
| x/c   | Cp     | x/c           | Cp      | x/c   | Cp      |
| 0.005 | 0.3048 | 0.005         | 0.2953  | 0.005 | 0.1547  |
| 0.010 | 0.0228 | 0.010         | -0.0337 | 0.010 | -0.2517 |

Flight 33 Test point 8

Sweep, deg = 20.0 Mach = 0.60 hp, ft = 9800. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 372.2 Rnpu = 3565000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9951  | 0.000                    | 1.0270  | 0.000                      | 1.0069  |
| 0.005                       | 0.1553  | 0.005                    | 0.2971  | 0.005                      | 0.5877  |
| 0.010                       | -0.1264 | 0.010                    | 0.0246  | 0.010                      | 0.3053  |
| 0.020                       | -0.3443 | 0.020                    | -0.2295 | 0.020                      | -0.0414 |
| 0.040                       | -0.4684 | 0.040                    | -0.3569 | 0.040                      | -0.2157 |
| 0.060                       | -0.5137 | 0.060                    | -0.4038 | 0.060                      | -0.3014 |
| 0.080                       | -0.5363 | 0.080                    | -0.4329 | 0.080                      | -0.3320 |
| 0.100                       | -0.5457 | 0.100                    | -0.4521 | 0.100                      | -0.3515 |
| 0.125                       | -0.4943 | 0.125                    | -0.4648 | 0.125                      | -0.3657 |
| 0.150                       | -0.5632 | 0.150                    | -0.4913 | 0.150                      | -0.3921 |
| 0.175                       | -0.5547 | 0.175                    | -0.5140 | 0.175                      | -0.4119 |
| 0.200                       | -0.5913 | 0.200                    | -0.5287 | 0.200                      | -0.4184 |
| 0.250                       | -0.5965 | 0.250                    | -0.5667 | 0.250                      | -0.4591 |
| 0.300                       | -0.5805 | 0.300                    | -0.5611 | 0.300                      | -0.4481 |
| 0.350                       | -0.5362 | 0.350                    | -0.5360 | 0.350                      | -0.4659 |
| 0.400                       | -0.4928 | 0.400                    | -0.5299 | 0.400                      | -0.4615 |
| 0.450                       | -0.4425 | 0.450                    | -0.4849 | 0.450                      | -0.4468 |
| 0.500                       | -0.4353 | 0.500                    | -0.4752 | 0.500                      | -0.4225 |
| 0.550                       | -0.3851 | 0.550                    | -0.4693 | 0.550                      | -0.4368 |

| Lower surface |        |       |         |       |         |
|---------------|--------|-------|---------|-------|---------|
| 0.005         | 0.3289 | 0.005 | 0.2956  | 0.005 | 0.1346  |
| 0.010         | 0.0387 | 0.010 | -0.0522 | 0.010 | -0.2964 |

Fight 33 Test point 9

Sweep, deg = 20.0 Mach = 0.60 hp, ft = 9800. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 372.4 Rnpu = 3561000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9218  | 0.000                    | 0.9551  | 0.000                      | 0.9527  |
| 0.005                       | -0.1221 | 0.005                    | 0.0187  | 0.005                      | 0.3485  |
| 0.010                       | -0.3948 | 0.010                    | -0.2499 | 0.010                      | 0.0439  |
| 0.020                       | -0.5758 | 0.020                    | -0.4796 | 0.020                      | -0.2944 |
| 0.040                       | -0.6484 | 0.040                    | -0.5810 | 0.040                      | -0.4209 |
| 0.060                       | -0.6623 | 0.060                    | -0.5769 | 0.060                      | -0.4761 |
| 0.080                       | -0.6652 | 0.080                    | -0.5857 | 0.080                      | -0.4838 |
| 0.100                       | -0.6588 | 0.100                    | -0.5787 | 0.100                      | -0.4891 |
| 0.125                       | -0.5783 | 0.125                    | -0.5809 | 0.125                      | -0.4889 |
| 0.150                       | -0.6538 | 0.150                    | -0.5969 | 0.150                      | -0.4986 |
| 0.175                       | -0.6307 | 0.175                    | -0.6127 | 0.175                      | -0.5115 |
| 0.200                       | -0.6599 | 0.200                    | -0.6194 | 0.200                      | -0.4965 |
| 0.250                       | -0.6500 | 0.250                    | -0.6411 | 0.250                      | -0.5295 |
| 0.300                       | -0.6316 | 0.300                    | -0.6203 | 0.300                      | -0.5242 |
| 0.350                       | -0.5818 | 0.350                    | -0.5882 | 0.350                      | -0.5238 |
| 0.400                       | -0.5339 | 0.400                    | -0.5750 | 0.400                      | -0.5091 |
| 0.450                       | -0.4780 | 0.450                    | -0.5290 | 0.450                      | -0.4840 |
| 0.500                       | -0.4674 | 0.500                    | -0.5118 | 0.500                      | -0.4553 |
| 0.550                       | -0.4105 | 0.550                    | -0.4974 | 0.550                      | -0.4645 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.4797 | 0.005 | 0.4652 | 0.005 | 0.3493  |
| 0.010         | 0.2151 | 0.010 | 0.1646 | 0.010 | -0.0247 |

Flight 33 Test point 10

Sweep, deg = 20.0 Mach = 0.60 hp, ft = 10100. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = -4.7 QBAR, lb/ft<sup>2</sup> = 367.4 Rnpu = 3528000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9667  | 0.000                    | 1.0072  | 0.000                      | 1.0058  |
| 0.005                       | -0.1277 | 0.005                    | 0.0328  | 0.005                      | 0.3938  |
| 0.010                       | -0.4091 | 0.010                    | -0.2464 | 0.010                      | 0.0753  |
| 0.020                       | -0.6016 | 0.020                    | -0.4821 | 0.020                      | -0.2785 |
| 0.040                       | -0.6789 | 0.040                    | -0.5670 | 0.040                      | -0.4137 |
| 0.060                       | -0.6871 | 0.060                    | -0.5810 | 0.060                      | -0.4748 |
| 0.080                       | -0.6919 | 0.080                    | -0.5916 | 0.080                      | -0.4780 |
| 0.100                       | -0.6856 | 0.100                    | -0.5921 | 0.100                      | -0.4861 |
| 0.125                       | -0.6014 | 0.125                    | -0.5877 | 0.125                      | -0.4860 |
| 0.150                       | -0.6781 | 0.150                    | -0.6079 | 0.150                      | -0.4981 |
| 0.175                       | -0.6503 | 0.175                    | -0.6218 | 0.175                      | -0.5107 |
| 0.200                       | -0.6849 | 0.200                    | -0.6305 | 0.200                      | -0.5084 |
| 0.250                       | -0.6765 | 0.250                    | -0.6558 | 0.250                      | -0.5431 |
| 0.300                       | -0.6513 | 0.300                    | -0.6328 | 0.300                      | -0.5217 |
| 0.350                       | -0.5961 | 0.350                    | -0.6008 | 0.350                      | -0.5255 |
| 0.400                       | -0.5423 | 0.400                    | -0.5866 | 0.400                      | -0.5137 |
| 0.450                       | -0.4856 | 0.450                    | -0.5339 | 0.450                      | -0.4928 |
| 0.500                       | -0.4704 | 0.500                    | -0.5148 | 0.500                      | -0.4607 |
| 0.550                       | -0.4121 | 0.550                    | -0.5027 | 0.550                      | -0.4668 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.5301 | 0.005 | 0.5090 | 0.005 | 0.3750  |
| 0.010 | 0.2622 | 0.010 | 0.2003 | 0.010 | -0.0107 |

Flight 33 Test point 11

Sweep, deg = 25.0 Mach = 0.60 hp, ft = 9900. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 369.6 Rnpu = 3552000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8757  | 0.000                    | 0.8956  | 0.000                      | 0.8861  |
| 0.005                       | -0.0360 | 0.005                    | 0.0764  | 0.005                      | 0.3659  |
| 0.010                       | -0.2935 | 0.010                    | -0.1728 | 0.010                      | 0.0922  |
| 0.020                       | -0.4640 | 0.020                    | -0.3872 | 0.020                      | -0.2197 |
| 0.040                       | -0.5484 | 0.040                    | -0.4900 | 0.040                      | -0.3486 |
| 0.060                       | -0.5672 | 0.060                    | -0.4817 | 0.060                      | -0.4064 |
| 0.080                       | -0.5718 | 0.080                    | -0.4944 | 0.080                      | -0.4190 |
| 0.100                       | -0.5701 | 0.100                    | -0.4972 | 0.100                      | -0.4244 |
| 0.125                       | -0.5062 | 0.125                    | -0.5072 | 0.125                      | -0.4123 |
| 0.150                       | -0.5720 | 0.150                    | -0.5291 | 0.150                      | -0.4204 |
| 0.175                       | -0.5543 | 0.175                    | -0.5410 | 0.175                      | -0.4421 |
| 0.200                       | -0.5868 | 0.200                    | -0.5482 | 0.200                      | -0.4491 |
| 0.250                       | -0.5822 | 0.250                    | -0.5705 | 0.250                      | -0.4755 |
| 0.300                       | -0.5691 | 0.300                    | -0.5552 | 0.300                      | -0.4697 |
| 0.350                       | -0.5210 | 0.350                    | -0.5257 | 0.350                      | -0.4702 |
| 0.400                       | -0.4832 | 0.400                    | -0.5233 | 0.400                      | -0.4613 |
| 0.450                       | -0.4385 | 0.450                    | -0.4759 | 0.450                      | -0.4413 |
| 0.500                       | -0.4266 | 0.500                    | -0.4621 | 0.500                      | -0.4184 |
| 0.550                       | -0.3833 | 0.550                    | -0.4593 | 0.550                      | -0.4285 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.3936 | 0.005 | 0.3742 | 0.005 | 0.2512  |
| 0.010         | 0.1330 | 0.010 | 0.0830 | 0.010 | -0.0985 |

Fight 33 Test point 12

Sweep, deg = 24.9 Mach = 0.61 hp, ft = 9500. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 381.4 Rnpu = 3629000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8857  | 0.000                    | 0.9027  | 0.000                      | 0.8850  |
| 0.005                       | 0.0764  | 0.005                    | 0.1785  | 0.005                      | 0.4507  |
| 0.010                       | -0.1850 | 0.010                    | -0.0678 | 0.010                      | 0.1834  |
| 0.020                       | -0.3740 | 0.020                    | -0.2881 | 0.020                      | -0.1297 |
| 0.040                       | -0.4733 | 0.040                    | -0.4103 | 0.040                      | -0.2718 |
| 0.060                       | -0.4944 | 0.060                    | -0.4214 | 0.060                      | -0.3408 |
| 0.080                       | -0.5175 | 0.080                    | -0.4411 | 0.080                      | -0.3611 |
| 0.100                       | -0.5207 | 0.100                    | -0.4529 | 0.100                      | -0.3744 |
| 0.125                       | -0.4737 | 0.125                    | -0.4626 | 0.125                      | -0.3699 |
| 0.150                       | -0.5339 | 0.150                    | -0.4824 | 0.150                      | -0.3863 |
| 0.175                       | -0.5234 | 0.175                    | -0.5009 | 0.175                      | -0.4078 |
| 0.200                       | -0.5553 | 0.200                    | -0.5131 | 0.200                      | -0.4073 |
| 0.250                       | -0.5550 | 0.250                    | -0.5427 | 0.250                      | -0.4456 |
| 0.300                       | -0.5466 | 0.300                    | -0.5340 | 0.300                      | -0.4418 |
| 0.350                       | -0.5084 | 0.350                    | -0.5060 | 0.350                      | -0.4529 |
| 0.400                       | -0.4706 | 0.400                    | -0.5016 | 0.400                      | -0.4426 |
| 0.450                       | -0.4236 | 0.450                    | -0.4629 | 0.450                      | -0.4284 |
| 0.500                       | -0.4175 | 0.500                    | -0.4514 | 0.500                      | -0.4060 |
| 0.550                       | -0.3767 | 0.550                    | -0.4473 | 0.550                      | -0.4200 |

| Lower surface |        |       |         |       |         |
|---------------|--------|-------|---------|-------|---------|
| 0.005         | 0.2983 | 0.005 | 0.2893  | 0.005 | 0.1599  |
| 0.010         | 0.0284 | 0.010 | -0.0133 | 0.010 | -0.2119 |



Flight 33 Test point 13

Sweep, deg = 25.0 Mach = 0.61 hp, ft = 10000. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = -0.6 QBAR, lb/ft<sup>2</sup> = 371.5 Rnpu = 3556000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8528  | 0.000                    | 0.8711  | 0.000                      | 0.8749  |
| 0.005                       | -0.2222 | 0.005                    | -0.1027 | 0.005                      | 0.2371  |
| 0.010                       | -0.4832 | 0.010                    | -0.3519 | 0.010                      | -0.0617 |
| 0.020                       | -0.6355 | 0.020                    | -0.5481 | 0.020                      | -0.3747 |
| 0.040                       | -0.6689 | 0.040                    | -0.6184 | 0.040                      | -0.4712 |
| 0.060                       | -0.6706 | 0.060                    | -0.5911 | 0.060                      | -0.5074 |
| 0.080                       | -0.6685 | 0.080                    | -0.5969 | 0.080                      | -0.5035 |
| 0.100                       | -0.6543 | 0.100                    | -0.5897 | 0.100                      | -0.5034 |
| 0.125                       | -0.5746 | 0.125                    | -0.5825 | 0.125                      | -0.4864 |
| 0.150                       | -0.6400 | 0.150                    | -0.5910 | 0.150                      | -0.4864 |
| 0.175                       | -0.6136 | 0.175                    | -0.6014 | 0.175                      | -0.5021 |
| 0.200                       | -0.6443 | 0.200                    | -0.6022 | 0.200                      | -0.4900 |
| 0.250                       | -0.6347 | 0.250                    | -0.6199 | 0.250                      | -0.5178 |
| 0.300                       | -0.6103 | 0.300                    | -0.5984 | 0.300                      | -0.5072 |
| 0.350                       | -0.5602 | 0.350                    | -0.5642 | 0.350                      | -0.5047 |
| 0.400                       | -0.5159 | 0.400                    | -0.5479 | 0.400                      | -0.4876 |
| 0.450                       | -0.4611 | 0.450                    | -0.5019 | 0.450                      | -0.4636 |
| 0.500                       | -0.4503 | 0.500                    | -0.4812 | 0.500                      | -0.4344 |
| 0.550                       | -0.3970 | 0.550                    | -0.4733 | 0.550                      | -0.4445 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5037 | 0.005 | 0.5015 | 0.005 | 0.4010 |
| 0.010 | 0.2604 | 0.010 | 0.2306 | 0.010 | 0.0727 |

Fight 33 Test point 14

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = -0.1  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 500.7 Rnpu = 4176000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9079  | 0.000                    | 0.9177  | 0.000                      | 0.8961  |
| 0.005                       | 0.2538  | 0.005                    | 0.3271  | 0.005                      | 0.5568  |
| 0.010                       | -0.0177 | 0.010                    | 0.0844  | 0.010                      | 0.3095  |
| 0.020                       | -0.2438 | 0.020                    | -0.1638 | 0.020                      | -0.0138 |
| 0.040                       | -0.3949 | 0.040                    | -0.3225 | 0.040                      | -0.1884 |
| 0.060                       | -0.4438 | 0.060                    | -0.3712 | 0.060                      | -0.2740 |
| 0.080                       | -0.4814 | 0.080                    | -0.4098 | 0.080                      | -0.3087 |
| 0.100                       | -0.5024 | 0.100                    | -0.4324 | 0.100                      | -0.3362 |
| 0.125                       | -0.4741 | 0.125                    | -0.4528 | 0.125                      | -0.3580 |
| 0.150                       | -0.5465 | 0.150                    | -0.4901 | 0.150                      | -0.3892 |
| 0.175                       | -0.5459 | 0.175                    | -0.5188 | 0.175                      | -0.4189 |
| 0.200                       | -0.5899 | 0.200                    | -0.5377 | 0.200                      | -0.4300 |
| 0.250                       | -0.5992 | 0.250                    | -0.5837 | 0.250                      | -0.4775 |
| 0.300                       | -0.5992 | 0.300                    | -0.5835 | 0.300                      | -0.4869 |
| 0.350                       | -0.5605 | 0.350                    | -0.5660 | 0.350                      | -0.4971 |
| 0.400                       | -0.5187 | 0.400                    | -0.5545 | 0.400                      | -0.4842 |
| 0.450                       | -0.4667 | 0.450                    | -0.5096 | 0.450                      | -0.4656 |
| 0.500                       | -0.4536 | 0.500                    | -0.4917 | 0.500                      | -0.4333 |
| 0.550                       | -0.4073 | 0.550                    | -0.4842 | 0.550                      | -0.4329 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.1989  | 0.005 | 0.1907  | 0.005 | 0.0752  |
| 0.010 | -0.0962 | 0.010 | -0.1363 | 0.010 | -0.3358 |

Flight 33 Test point 15

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 9900. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -5.2 QBAR, lb/ft<sup>2</sup> = 500.2 Rnpu = 4174000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0225  | 0.000                    | 1.0475  | 0.000                      | 1.0226  |
| 0.005                       | 0.3286  | 0.005                    | 0.4424  | 0.005                      | 0.6868  |
| 0.010                       | 0.0402  | 0.010                    | 0.1712  | 0.010                      | 0.4234  |
| 0.020                       | -0.2096 | 0.020                    | -0.1054 | 0.020                      | 0.0671  |
| 0.040                       | -0.3867 | 0.040                    | -0.2793 | 0.040                      | -0.1345 |
| 0.060                       | -0.4632 | 0.060                    | -0.3533 | 0.060                      | -0.2521 |
| 0.080                       | -0.5118 | 0.080                    | -0.4035 | 0.080                      | -0.2975 |
| 0.100                       | -0.5431 | 0.100                    | -0.4367 | 0.100                      | -0.3313 |
| 0.125                       | -0.5111 | 0.125                    | -0.4603 | 0.125                      | -0.3605 |
| 0.150                       | -0.5955 | 0.150                    | -0.5037 | 0.150                      | -0.3969 |
| 0.175                       | -0.5943 | 0.175                    | -0.5417 | 0.175                      | -0.4287 |
| 0.200                       | -0.6520 | 0.200                    | -0.5708 | 0.200                      | -0.4476 |
| 0.250                       | -0.6689 | 0.250                    | -0.6309 | 0.250                      | -0.5027 |
| 0.300                       | -0.6606 | 0.300                    | -0.6403 | 0.300                      | -0.5031 |
| 0.350                       | -0.6075 | 0.350                    | -0.6180 | 0.350                      | -0.5289 |
| 0.400                       | -0.5520 | 0.400                    | -0.6034 | 0.400                      | -0.5182 |
| 0.450                       | -0.4926 | 0.450                    | -0.5539 | 0.450                      | -0.4992 |
| 0.500                       | -0.4776 | 0.500                    | -0.5305 | 0.500                      | -0.4591 |
| 0.550                       | -0.4223 | 0.550                    | -0.5169 | 0.550                      | -0.4445 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2461  | 0.005 | 0.2248  | 0.005 | 0.0891  |
| 0.010 | -0.0678 | 0.010 | -0.1486 | 0.010 | -0.3781 |

Fight 33 Test point 16

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 10100. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 501.6 Rnpu = 4176000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9773  | 0.000                    | 0.9971  | 0.000                      | 0.9770  |
| 0.005                       | 0.2307  | 0.005                    | 0.3270  | 0.005                      | 0.5775  |
| 0.010                       | -0.0543 | 0.010                    | 0.0550  | 0.010                      | 0.3048  |
| 0.020                       | -0.2947 | 0.020                    | -0.2081 | 0.020                      | -0.0485 |
| 0.040                       | -0.4507 | 0.040                    | -0.3833 | 0.040                      | -0.2362 |
| 0.060                       | -0.5165 | 0.060                    | -0.4268 | 0.060                      | -0.3394 |
| 0.080                       | -0.5591 | 0.080                    | -0.4719 | 0.080                      | -0.3751 |
| 0.100                       | -0.5834 | 0.100                    | -0.4949 | 0.100                      | -0.4022 |
| 0.125                       | -0.5377 | 0.125                    | -0.5141 | 0.125                      | -0.4169 |
| 0.150                       | -0.6278 | 0.150                    | -0.5484 | 0.150                      | -0.4479 |
| 0.175                       | -0.6171 | 0.175                    | -0.5861 | 0.175                      | -0.4704 |
| 0.200                       | -0.6718 | 0.200                    | -0.6109 | 0.200                      | -0.4814 |
| 0.250                       | -0.6821 | 0.250                    | -0.6670 | 0.250                      | -0.5342 |
| 0.300                       | -0.6764 | 0.300                    | -0.6641 | 0.300                      | -0.5419 |
| 0.350                       | -0.6275 | 0.350                    | -0.6373 | 0.350                      | -0.5537 |
| 0.400                       | -0.5712 | 0.400                    | -0.6203 | 0.400                      | -0.5370 |
| 0.450                       | -0.5111 | 0.450                    | -0.5660 | 0.450                      | -0.5101 |
| 0.500                       | -0.4925 | 0.500                    | -0.5400 | 0.500                      | -0.4669 |
| 0.550                       | -0.4382 | 0.550                    | -0.5272 | 0.550                      | -0.4537 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2854  | 0.005 | 0.2773  | 0.005 | 0.1612  |
| 0.010 | -0.0180 | 0.010 | -0.0692 | 0.010 | -0.2609 |

Fight 33 Test point 17

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 9800. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 506.7 Rnpu = 4212000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0253  | 0.000                    | 1.0510  | 0.000                      | 1.0273  |
| 0.005                       | 0.2854  | 0.005                    | 0.4029  | 0.005                      | 0.6596  |
| 0.010                       | -0.0083 | 0.010                    | 0.1290  | 0.010                      | 0.3885  |
| 0.020                       | -0.2551 | 0.020                    | -0.1462 | 0.020                      | 0.0279  |
| 0.040                       | -0.4287 | 0.040                    | -0.3156 | 0.040                      | -0.1712 |
| 0.060                       | -0.5022 | 0.060                    | -0.3887 | 0.060                      | -0.2831 |
| 0.080                       | -0.5465 | 0.080                    | -0.4358 | 0.080                      | -0.3274 |
| 0.100                       | -0.5772 | 0.100                    | -0.4656 | 0.100                      | -0.3596 |
| 0.125                       | -0.5358 | 0.125                    | -0.4934 | 0.125                      | -0.3847 |
| 0.150                       | -0.6287 | 0.150                    | -0.5330 | 0.150                      | -0.4204 |
| 0.175                       | -0.6225 | 0.175                    | -0.5687 | 0.175                      | -0.4538 |
| 0.200                       | -0.6833 | 0.200                    | -0.5976 | 0.200                      | -0.4689 |
| 0.250                       | -0.6934 | 0.250                    | -0.6577 | 0.250                      | -0.5226 |
| 0.300                       | -0.6849 | 0.300                    | -0.6657 | 0.300                      | -0.5266 |
| 0.350                       | -0.6282 | 0.350                    | -0.6398 | 0.350                      | -0.5470 |
| 0.400                       | -0.5684 | 0.400                    | -0.6215 | 0.400                      | -0.5341 |
| 0.450                       | -0.5052 | 0.450                    | -0.5674 | 0.450                      | -0.5125 |
| 0.500                       | -0.4869 | 0.500                    | -0.5427 | 0.500                      | -0.4739 |
| 0.550                       | -0.4298 | 0.550                    | -0.5260 | 0.550                      | -0.4585 |

| Lower surface |         |       |         |       |         |
|---------------|---------|-------|---------|-------|---------|
| 0.005         | 0.2950  | 0.005 | 0.2681  | 0.005 | 0.1340  |
| 0.010         | -0.0140 | 0.010 | -0.0964 | 0.010 | -0.3224 |

Fight 33 Test point 18

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 10400. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 496.4 Rrho = 4137000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9614  | 0.000                    | 0.9823  | 0.000                      | 0.9779  |
| 0.005                       | -0.0397 | 0.005                    | 0.0552  | 0.005                      | 0.3663  |
| 0.010                       | -0.3607 | 0.010                    | -0.2341 | 0.010                      | 0.0515  |
| 0.020                       | -0.5818 | 0.020                    | -0.4925 | 0.020                      | -0.3256 |
| 0.040                       | -0.7135 | 0.040                    | -0.6402 | 0.040                      | -0.4841 |
| 0.060                       | -0.7674 | 0.060                    | -0.6627 | 0.060                      | -0.5629 |
| 0.080                       | -0.7794 | 0.080                    | -0.6881 | 0.080                      | -0.5774 |
| 0.100                       | -0.7886 | 0.100                    | -0.7007 | 0.100                      | -0.5879 |
| 0.125                       | -0.6939 | 0.125                    | -0.6950 | 0.125                      | -0.5887 |
| 0.150                       | -0.7949 | 0.150                    | -0.7238 | 0.150                      | -0.6075 |
| 0.175                       | -0.7634 | 0.175                    | -0.7485 | 0.175                      | -0.6267 |
| 0.200                       | -0.8298 | 0.200                    | -0.7662 | 0.200                      | -0.6278 |
| 0.250                       | -0.8159 | 0.250                    | -0.8148 | 0.250                      | -0.6569 |
| 0.300                       | -0.7825 | 0.300                    | -0.7862 | 0.300                      | -0.6464 |
| 0.350                       | -0.7051 | 0.350                    | -0.7362 | 0.350                      | -0.6441 |
| 0.400                       | -0.6354 | 0.400                    | -0.6924 | 0.400                      | -0.6092 |
| 0.450                       | -0.5577 | 0.450                    | -0.6239 | 0.450                      | -0.5718 |
| 0.500                       | -0.5317 | 0.500                    | -0.5841 | 0.500                      | -0.5194 |
| 0.550                       | -0.4651 | 0.550                    | -0.5623 | 0.550                      | -0.4904 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5204 | 0.005 | 0.5126 | 0.005 | 0.4177 |
| 0.010 | 0.2502 | 0.010 | 0.2100 | 0.010 | 0.0517 |

Fight 33 Test point 19

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 9900. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 502.4 Rnpu = 4185000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0017  | 0.000                    | 1.0333  | 0.000                      | 1.0299  |
| 0.005                       | -0.0547 | 0.005                    | 0.0952  | 0.005                      | 0.4239  |
| 0.010                       | -0.3588 | 0.010                    | -0.2054 | 0.010                      | 0.1041  |
| 0.020                       | -0.5879 | 0.020                    | -0.4719 | 0.020                      | -0.2820 |
| 0.040                       | -0.7363 | 0.040                    | -0.6094 | 0.040                      | -0.4497 |
| 0.060                       | -0.7826 | 0.060                    | -0.6519 | 0.060                      | -0.5333 |
| 0.080                       | -0.8082 | 0.080                    | -0.6795 | 0.080                      | -0.5525 |
| 0.100                       | -0.8187 | 0.100                    | -0.6933 | 0.100                      | -0.5648 |
| 0.125                       | -0.7117 | 0.125                    | -0.6948 | 0.125                      | -0.5680 |
| 0.150                       | -0.8292 | 0.150                    | -0.7221 | 0.150                      | -0.5922 |
| 0.175                       | -0.7753 | 0.175                    | -0.7485 | 0.175                      | -0.6125 |
| 0.200                       | -0.8621 | 0.200                    | -0.7719 | 0.200                      | -0.6162 |
| 0.250                       | -0.8370 | 0.250                    | -0.8215 | 0.250                      | -0.6598 |
| 0.300                       | -0.7962 | 0.300                    | -0.8037 | 0.300                      | -0.6383 |
| 0.350                       | -0.7078 | 0.350                    | -0.7398 | 0.350                      | -0.6446 |
| 0.400                       | -0.6332 | 0.400                    | -0.6956 | 0.400                      | -0.6106 |
| 0.450                       | -0.5551 | 0.450                    | -0.6266 | 0.450                      | -0.5761 |
| 0.500                       | -0.5267 | 0.500                    | -0.5848 | 0.500                      | -0.5196 |
| 0.550                       | -0.4562 | 0.550                    | -0.5568 | 0.550                      | -0.4871 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.5669 | 0.005 | 0.5458 | 0.005 | 0.4360 |
| 0.010         | 0.2967 | 0.010 | 0.2348 | 0.010 | 0.0521 |

Fight 33 Test point 20

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = -0.1  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 502.0 Rnpu = 4182000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9082  | 0.000                    | 0.9177  | 0.000                      | 0.8958  |
| 0.005                       | 0.2377  | 0.005                    | 0.3189  | 0.005                      | 0.5495  |
| 0.010                       | -0.0344 | 0.010                    | 0.0728  | 0.010                      | 0.2990  |
| 0.020                       | -0.2562 | 0.020                    | -0.1752 | 0.020                      | -0.0234 |
| 0.040                       | -0.4055 | 0.040                    | -0.3246 | 0.040                      | -0.2008 |
| 0.060                       | -0.4514 | 0.060                    | -0.3751 | 0.060                      | -0.2813 |
| 0.080                       | -0.4928 | 0.080                    | -0.4196 | 0.080                      | -0.3119 |
| 0.100                       | -0.5117 | 0.100                    | -0.4421 | 0.100                      | -0.3443 |
| 0.125                       | -0.4761 | 0.125                    | -0.4626 | 0.125                      | -0.3669 |
| 0.150                       | -0.5507 | 0.150                    | -0.4935 | 0.150                      | -0.3961 |
| 0.175                       | -0.5472 | 0.175                    | -0.5231 | 0.175                      | -0.4277 |
| 0.200                       | -0.5925 | 0.200                    | -0.5433 | 0.200                      | -0.4349 |
| 0.250                       | -0.6041 | 0.250                    | -0.5906 | 0.250                      | -0.4842 |
| 0.300                       | -0.6026 | 0.300                    | -0.5890 | 0.300                      | -0.4926 |
| 0.350                       | -0.5595 | 0.350                    | -0.5684 | 0.350                      | -0.5027 |
| 0.400                       | -0.5171 | 0.400                    | -0.5555 | 0.400                      | -0.4886 |
| 0.450                       | -0.4647 | 0.450                    | -0.5098 | 0.450                      | -0.4679 |
| 0.500                       | -0.4551 | 0.500                    | -0.4864 | 0.500                      | -0.4345 |
| 0.550                       | -0.4078 | 0.550                    | -0.4795 | 0.550                      | -0.4344 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2155  | 0.005 | 0.2037  | 0.005 | 0.0864  |
| 0.010 | -0.0761 | 0.010 | -0.1263 | 0.010 | -0.3224 |



Fight 33 Test point 21

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 10100. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 494.3 Rnpu = 4140000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9099  | 0.000                    | 0.9168  | 0.000                      | 0.9014  |
| 0.005                       | 0.1312  | 0.005                    | 0.2061  | 0.005                      | 0.4628  |
| 0.010                       | -0.1473 | 0.010                    | -0.0490 | 0.010                      | 0.1947  |
| 0.020                       | -0.3619 | 0.020                    | -0.2911 | 0.020                      | -0.1370 |
| 0.040                       | -0.4949 | 0.040                    | -0.4321 | 0.040                      | -0.2990 |
| 0.060                       | -0.5435 | 0.060                    | -0.4635 | 0.060                      | -0.3798 |
| 0.080                       | -0.5703 | 0.080                    | -0.4977 | 0.080                      | -0.4037 |
| 0.100                       | -0.5841 | 0.100                    | -0.5144 | 0.100                      | -0.4140 |
| 0.125                       | -0.5306 | 0.125                    | -0.5259 | 0.125                      | -0.4254 |
| 0.150                       | -0.6105 | 0.150                    | -0.5544 | 0.150                      | -0.4513 |
| 0.175                       | -0.5967 | 0.175                    | -0.5798 | 0.175                      | -0.4790 |
| 0.200                       | -0.6432 | 0.200                    | -0.5961 | 0.200                      | -0.4824 |
| 0.250                       | -0.6497 | 0.250                    | -0.6374 | 0.250                      | -0.5287 |
| 0.300                       | -0.6389 | 0.300                    | -0.6297 | 0.300                      | -0.5297 |
| 0.350                       | -0.5912 | 0.350                    | -0.6008 | 0.350                      | -0.5329 |
| 0.400                       | -0.5412 | 0.400                    | -0.5818 | 0.400                      | -0.5154 |
| 0.450                       | -0.4871 | 0.450                    | -0.5321 | 0.450                      | -0.4899 |
| 0.500                       | -0.4712 | 0.500                    | -0.5054 | 0.500                      | -0.4514 |
| 0.550                       | -0.4192 | 0.550                    | -0.4949 | 0.550                      | -0.4469 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3255 | 0.005 | 0.3119 | 0.005 | 0.2040  |
| 0.010 | 0.0520 | 0.010 | 0.0034 | 0.010 | -0.1757 |

Flight 33 Test point 22

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 10200. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 492.6 Rnpu = 4127000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8834  | 0.000                    | 0.8954  | 0.000                      | 0.8902  |
| 0.005                       | -0.1220 | 0.005                    | -0.0138 | 0.005                      | 0.2818  |
| 0.010                       | -0.4107 | 0.010                    | -0.2734 | 0.010                      | -0.0151 |
| 0.020                       | -0.6047 | 0.020                    | -0.5175 | 0.020                      | -0.3561 |
| 0.040                       | -0.6904 | 0.040                    | -0.6328 | 0.040                      | -0.4851 |
| 0.060                       | -0.7255 | 0.060                    | -0.6522 | 0.060                      | -0.5433 |
| 0.080                       | -0.7354 | 0.080                    | -0.6682 | 0.080                      | -0.5517 |
| 0.100                       | -0.7340 | 0.100                    | -0.6693 | 0.100                      | -0.5608 |
| 0.125                       | -0.6440 | 0.125                    | -0.6631 | 0.125                      | -0.5602 |
| 0.150                       | -0.7310 | 0.150                    | -0.6798 | 0.150                      | -0.5712 |
| 0.175                       | -0.7009 | 0.175                    | -0.6965 | 0.175                      | -0.5883 |
| 0.200                       | -0.7482 | 0.200                    | -0.7102 | 0.200                      | -0.5841 |
| 0.250                       | -0.7388 | 0.250                    | -0.7396 | 0.250                      | -0.6151 |
| 0.300                       | -0.7156 | 0.300                    | -0.7150 | 0.300                      | -0.6043 |
| 0.350                       | -0.6514 | 0.350                    | -0.6694 | 0.350                      | -0.5992 |
| 0.400                       | -0.5914 | 0.400                    | -0.6380 | 0.400                      | -0.5682 |
| 0.450                       | -0.5248 | 0.450                    | -0.5757 | 0.450                      | -0.5305 |
| 0.500                       | -0.5031 | 0.500                    | -0.5386 | 0.500                      | -0.4828 |
| 0.550                       | -0.4414 | 0.550                    | -0.5202 | 0.550                      | -0.4709 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4959 | 0.005 | 0.4934 | 0.005 | 0.4041 |
| 0.010 | 0.2425 | 0.010 | 0.2223 | 0.010 | 0.0719 |

Flight 33 Test point 23

Sweep, deg = 30.0  $Mac_0 = 0.70$  hp, ft = 20000. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = -0.3  $QBAR$ , lb/ft<sup>2</sup> = 332.7  $Rnpu = 2947000$ .

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8061  | 0.000                    | 0.8093  | 0.000                      | 0.8070  |
| 0.005                       | -0.1619 | 0.005                    | -0.0833 | 0.005                      | 0.2042  |
| 0.010                       | -0.4302 | 0.010                    | -0.3114 | 0.010                      | -0.0763 |
| 0.020                       | -0.5950 | 0.020                    | -0.5276 | 0.020                      | -0.3779 |
| 0.040                       | -0.6645 | 0.040                    | -0.6113 | 0.040                      | -0.4826 |
| 0.060                       | -0.6644 | 0.060                    | -0.6219 | 0.060                      | -0.5269 |
| 0.080                       | -0.6733 | 0.080                    | -0.6277 | 0.080                      | -0.5317 |
| 0.100                       | -0.6648 | 0.100                    | -0.6181 | 0.100                      | -0.5326 |
| 0.125                       | -0.5880 | 0.125                    | -0.6089 | 0.125                      | -0.5298 |
| 0.150                       | -0.6574 | 0.150                    | -0.6224 | 0.150                      | -0.5324 |
| 0.175                       | -0.6343 | 0.175                    | -0.6343 | 0.175                      | -0.5494 |
| 0.200                       | -0.6714 | 0.200                    | -0.6392 | 0.200                      | -0.5352 |
| 0.250                       | -0.6613 | 0.250                    | -0.6667 | 0.250                      | -0.5628 |
| 0.300                       | -0.6381 | 0.300                    | -0.6390 | 0.300                      | -0.5433 |
| 0.350                       | -0.5882 | 0.350                    | -0.5972 | 0.350                      | -0.5351 |
| 0.400                       | -0.5338 | 0.400                    | -0.5696 | 0.400                      | -0.5138 |
| 0.450                       | -0.4756 | 0.450                    | -0.5146 | 0.450                      | -0.4818 |
| 0.500                       | -0.4633 | 0.500                    | -0.4916 | 0.500                      | -0.4327 |
| 0.550                       | -0.4022 | 0.550                    | -0.4721 | 0.550                      | -0.4295 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4652 | 0.005 | 0.4737 | 0.005 | 0.3950 |
| 0.010 | 0.2341 | 0.010 | 0.2250 | 0.010 | 0.0981 |

Flight 33 Test point 24

Sweep, deg = 29.8 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 337.9 Rnpu = 2973000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8336  | 0.000                    | 0.8384  | 0.000                      | 0.8239  |
| 0.005                       | 0.0673  | 0.005                    | 0.1277  | 0.005                      | 0.3747  |
| 0.010                       | -0.1892 | 0.010                    | -0.0912 | 0.010                      | 0.1221  |
| 0.020                       | -0.3795 | 0.020                    | -0.3210 | 0.020                      | -0.1711 |
| 0.040                       | -0.4838 | 0.040                    | -0.4337 | 0.040                      | -0.3109 |
| 0.060                       | -0.5202 | 0.060                    | -0.4668 | 0.060                      | -0.3839 |
| 0.080                       | -0.5428 | 0.080                    | -0.4896 | 0.080                      | -0.4044 |
| 0.100                       | -0.5489 | 0.100                    | -0.4958 | 0.100                      | -0.4178 |
| 0.125                       | -0.4985 | 0.125                    | -0.5036 | 0.125                      | -0.4281 |
| 0.150                       | -0.5677 | 0.150                    | -0.5249 | 0.150                      | -0.4406 |
| 0.175                       | -0.5565 | 0.175                    | -0.5468 | 0.175                      | -0.4627 |
| 0.200                       | -0.5930 | 0.200                    | -0.5571 | 0.200                      | -0.4619 |
| 0.250                       | -0.5946 | 0.250                    | -0.5940 | 0.250                      | -0.4960 |
| 0.300                       | -0.5834 | 0.300                    | -0.5775 | 0.300                      | -0.4927 |
| 0.350                       | -0.5447 | 0.350                    | -0.5464 | 0.350                      | -0.4906 |
| 0.400                       | -0.4973 | 0.400                    | -0.5320 | 0.400                      | -0.4722 |
| 0.450                       | -0.4477 | 0.450                    | -0.4846 | 0.450                      | -0.4502 |
| 0.500                       | -0.4390 | 0.500                    | -0.4636 | 0.500                      | -0.4136 |
| 0.550                       | -0.3868 | 0.550                    | -0.4519 | 0.550                      | -0.4125 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3220 | 0.005 | 0.3217 | 0.005 | 0.2289  |
| 0.010 | 0.0711 | 0.010 | 0.0454 | 0.010 | -0.1055 |

Fight 33 Test point 25

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 335.8 Rrho = 2963000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9071  | 0.000                    | 0.9248  | 0.000                      | 0.9102  |
| 0.005                       | 0.0637  | 0.005                    | 0.1454  | 0.005                      | 0.4144  |
| 0.010                       | -0.2151 | 0.010                    | -0.1067 | 0.010                      | 0.1336  |
| 0.020                       | -0.4236 | 0.020                    | -0.3491 | 0.020                      | -0.1977 |
| 0.040                       | -0.5519 | 0.040                    | -0.4941 | 0.040                      | -0.3568 |
| 0.060                       | -0.5909 | 0.060                    | -0.5296 | 0.060                      | -0.4367 |
| 0.080                       | -0.6111 | 0.080                    | -0.5525 | 0.080                      | -0.4561 |
| 0.100                       | -0.6214 | 0.100                    | -0.5603 | 0.100                      | -0.4690 |
| 0.125                       | -0.5649 | 0.125                    | -0.5612 | 0.125                      | -0.4787 |
| 0.150                       | -0.6473 | 0.150                    | -0.5896 | 0.150                      | -0.4969 |
| 0.175                       | -0.6310 | 0.175                    | -0.6131 | 0.175                      | -0.5196 |
| 0.200                       | -0.6741 | 0.200                    | -0.6293 | 0.200                      | -0.5133 |
| 0.250                       | -0.6730 | 0.250                    | -0.6770 | 0.250                      | -0.5550 |
| 0.300                       | -0.6593 | 0.300                    | -0.6575 | 0.300                      | -0.5497 |
| 0.350                       | -0.6117 | 0.350                    | -0.6203 | 0.350                      | -0.5522 |
| 0.400                       | -0.5556 | 0.400                    | -0.6021 | 0.400                      | -0.5279 |
| 0.450                       | -0.4965 | 0.450                    | -0.5395 | 0.450                      | -0.5024 |
| 0.500                       | -0.4798 | 0.500                    | -0.5177 | 0.500                      | -0.4564 |
| 0.550                       | -0.4214 | 0.550                    | -0.4974 | 0.550                      | -0.4430 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3732 | 0.005 | 0.3810 | 0.005 | 0.2795  |
| 0.010 | 0.0995 | 0.010 | 0.0747 | 0.010 | -0.0883 |

Fight 33 Test point 26

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 20300. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 331.0 Rnpu = 2932000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9105  | 0.000                    | 0.9239  | 0.000                      | 0.9077  |
| 0.005                       | 0.1010  | 0.005                    | 0.1824  | 0.005                      | 0.4443  |
| 0.010                       | -0.1770 | 0.010                    | -0.0691 | 0.010                      | 0.1673  |
| 0.020                       | -0.3877 | 0.020                    | -0.3100 | 0.020                      | -0.1612 |
| 0.040                       | -0.5212 | 0.040                    | -0.4614 | 0.040                      | -0.3222 |
| 0.060                       | -0.5699 | 0.060                    | -0.4980 | 0.060                      | -0.4038 |
| 0.080                       | -0.5933 | 0.080                    | -0.5295 | 0.080                      | -0.4287 |
| 0.100                       | -0.5902 | 0.100                    | -0.5381 | 0.100                      | -0.4469 |
| 0.125                       | -0.5461 | 0.125                    | -0.5438 | 0.125                      | -0.4602 |
| 0.150                       | -0.6250 | 0.150                    | -0.5664 | 0.150                      | -0.4787 |
| 0.175                       | -0.6123 | 0.175                    | -0.5966 | 0.175                      | -0.4997 |
| 0.200                       | -0.6577 | 0.200                    | -0.6085 | 0.200                      | -0.4981 |
| 0.250                       | -0.6608 | 0.250                    | -0.6592 | 0.250                      | -0.5375 |
| 0.300                       | -0.6515 | 0.300                    | -0.6453 | 0.300                      | -0.5357 |
| 0.350                       | -0.6019 | 0.350                    | -0.6079 | 0.350                      | -0.5408 |
| 0.400                       | -0.5457 | 0.400                    | -0.5933 | 0.400                      | -0.5190 |
| 0.450                       | -0.4883 | 0.450                    | -0.5353 | 0.450                      | -0.4916 |
| 0.500                       | -0.4775 | 0.500                    | -0.5145 | 0.500                      | -0.4531 |
| 0.550                       | -0.4163 | 0.550                    | -0.4936 | 0.550                      | -0.4418 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.3406 | 0.005 | 0.3422 | 0.005 | 0.2446  |
| 0.010         | 0.0637 | 0.010 | 0.0356 | 0.010 | -0.1330 |

Flight 33 Test point 27

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 19800. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 338.8 Rnpu = 2983000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8801  | 0.000                    | 0.8897  | 0.000                      | 0.8915  |
| 0.005                       | -0.1734 | 0.005                    | -0.0835 | 0.005                      | 0.2329  |
| 0.010                       | -0.4652 | 0.010                    | -0.3483 | 0.010                      | -0.0789 |
| 0.020                       | -0.6536 | 0.020                    | -0.5805 | 0.020                      | -0.4281 |
| 0.040                       | -0.7426 | 0.040                    | -0.7093 | 0.040                      | -0.5567 |
| 0.060                       | -0.7909 | 0.060                    | -0.7159 | 0.060                      | -0.6107 |
| 0.080                       | -0.7811 | 0.080                    | -0.7264 | 0.080                      | -0.6103 |
| 0.100                       | -0.7747 | 0.100                    | -0.7253 | 0.100                      | -0.6174 |
| 0.125                       | -0.6794 | 0.125                    | -0.6978 | 0.125                      | -0.6141 |
| 0.150                       | -0.7674 | 0.150                    | -0.7179 | 0.150                      | -0.6222 |
| 0.175                       | -0.7326 | 0.175                    | -0.7344 | 0.175                      | -0.6316 |
| 0.200                       | -0.7835 | 0.200                    | -0.7414 | 0.200                      | -0.6131 |
| 0.250                       | -0.7694 | 0.250                    | -0.7810 | 0.250                      | -0.6422 |
| 0.300                       | -0.7389 | 0.300                    | -0.7473 | 0.300                      | -0.6272 |
| 0.350                       | -0.6725 | 0.350                    | -0.6913 | 0.350                      | -0.6144 |
| 0.400                       | -0.6018 | 0.400                    | -0.6605 | 0.400                      | -0.5812 |
| 0.450                       | -0.5333 | 0.450                    | -0.5860 | 0.450                      | -0.5456 |
| 0.500                       | -0.5132 | 0.500                    | -0.5531 | 0.500                      | -0.4894 |
| 0.550                       | -0.4428 | 0.550                    | -0.5242 | 0.550                      | -0.4632 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5319 | 0.005 | 0.5351 | 0.005 | 0.4575 |
| 0.010 | 0.2843 | 0.010 | 0.2646 | 0.010 | 0.1293 |

Fight 33 Test point 28

Sweep, deg = 20.0 Mach = 0.69 hp, ft = 19700. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 329.5 Rnpu = 2941000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9617  | 0.000                    | 0.9870  | 0.000                      | 0.9703  |
| 0.005                       | 0.1244  | 0.005                    | 0.2159  | 0.005                      | 0.4922  |
| 0.010                       | -0.1747 | 0.010                    | -0.0573 | 0.010                      | 0.1975  |
| 0.020                       | -0.4095 | 0.020                    | -0.3273 | 0.020                      | -0.1592 |
| 0.040                       | -0.5672 | 0.040                    | -0.4982 | 0.040                      | -0.3497 |
| 0.060                       | -0.6282 | 0.060                    | -0.5478 | 0.060                      | -0.4484 |
| 0.080                       | -0.6653 | 0.080                    | -0.5876 | 0.080                      | -0.4738 |
| 0.100                       | -0.6786 | 0.100                    | -0.6024 | 0.100                      | -0.4983 |
| 0.125                       | -0.6283 | 0.125                    | -0.6155 | 0.125                      | -0.5149 |
| 0.150                       | -0.7236 | 0.150                    | -0.6487 | 0.150                      | -0.5452 |
| 0.175                       | -0.7098 | 0.175                    | -0.6860 | 0.175                      | -0.5726 |
| 0.200                       | -0.7644 | 0.200                    | -0.7058 | 0.200                      | -0.5838 |
| 0.250                       | -0.7710 | 0.250                    | -0.7619 | 0.250                      | -0.6282 |
| 0.300                       | -0.7560 | 0.300                    | -0.7541 | 0.300                      | -0.6298 |
| 0.350                       | -0.6970 | 0.350                    | -0.7089 | 0.350                      | -0.6353 |
| 0.400                       | -0.6318 | 0.400                    | -0.6970 | 0.400                      | -0.6067 |
| 0.450                       | -0.5677 | 0.450                    | -0.6293 | 0.450                      | -0.5744 |
| 0.500                       | -0.5515 | 0.500                    | -0.5990 | 0.500                      | -0.5295 |
| 0.550                       | -0.4863 | 0.550                    | -0.5694 | 0.550                      | -0.5022 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3266 | 0.005 | 0.3280  | 0.005 | 0.2205  |
| 0.010 | 0.0229 | 0.010 | -0.0150 | 0.010 | -0.2019 |



Flight 33 Test point 29

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 331.8 Rnpu = 2941000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0219  | 0.000                    | 1.0541  | 0.000                      | 1.0384  |
| 0.005                       | 0.1672  | 0.005                    | 0.2898  | 0.005                      | 0.5751  |
| 0.010                       | -0.1276 | 0.010                    | 0.0118  | 0.010                      | 0.2845  |
| 0.020                       | -0.3662 | 0.020                    | -0.2601 | 0.020                      | -0.0796 |
| 0.040                       | -0.5409 | 0.040                    | -0.4358 | 0.040                      | -0.2732 |
| 0.060                       | -0.5879 | 0.060                    | -0.4896 | 0.060                      | -0.3734 |
| 0.080                       | -0.6324 | 0.080                    | -0.5243 | 0.080                      | -0.4056 |
| 0.100                       | -0.6417 | 0.100                    | -0.5460 | 0.100                      | -0.4272 |
| 0.125                       | -0.5902 | 0.125                    | -0.5576 | 0.125                      | -0.4494 |
| 0.150                       | -0.6892 | 0.150                    | -0.5988 | 0.150                      | -0.4803 |
| 0.175                       | -0.6694 | 0.175                    | -0.6291 | 0.175                      | -0.5077 |
| 0.200                       | -0.7322 | 0.200                    | -0.6501 | 0.200                      | -0.5186 |
| 0.250                       | -0.7296 | 0.250                    | -0.7112 | 0.250                      | -0.5661 |
| 0.300                       | -0.7122 | 0.300                    | -0.6995 | 0.300                      | -0.5748 |
| 0.350                       | -0.6466 | 0.350                    | -0.6559 | 0.350                      | -0.5830 |
| 0.400                       | -0.5798 | 0.400                    | -0.6421 | 0.400                      | -0.5614 |
| 0.450                       | -0.5148 | 0.450                    | -0.5747 | 0.450                      | -0.5209 |
| 0.500                       | -0.4951 | 0.500                    | -0.5507 | 0.500                      | -0.4709 |
| 0.550                       | -0.4280 | 0.550                    | -0.5202 | 0.550                      | -0.4443 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3967 | 0.005 | 0.3848 | 0.005 | 0.2570  |
| 0.010 | 0.1023 | 0.010 | 0.0390 | 0.010 | -0.1733 |

Fight 33 Test point 30

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 20200. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 331.3 Rnpu = 2934000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9733  | 0.000                    | 0.9970  | 0.000                      | 0.9791  |
| 0.005                       | 0.1446  | 0.005                    | 0.2355  | 0.005                      | 0.5078  |
| 0.010                       | -0.1458 | 0.010                    | -0.0283 | 0.010                      | 0.2210  |
| 0.020                       | -0.3722 | 0.020                    | -0.2942 | 0.020                      | -0.1279 |
| 0.040                       | -0.5345 | 0.040                    | -0.4596 | 0.040                      | -0.3085 |
| 0.060                       | -0.5928 | 0.060                    | -0.5057 | 0.060                      | -0.4012 |
| 0.080                       | -0.6178 | 0.080                    | -0.5381 | 0.080                      | -0.4313 |
| 0.100                       | -0.6318 | 0.100                    | -0.5571 | 0.100                      | -0.4538 |
| 0.125                       | -0.5817 | 0.125                    | -0.5640 | 0.125                      | -0.4692 |
| 0.150                       | -0.6723 | 0.150                    | -0.6003 | 0.150                      | -0.5001 |
| 0.175                       | -0.6571 | 0.175                    | -0.6304 | 0.175                      | -0.5223 |
| 0.200                       | -0.7105 | 0.200                    | -0.6495 | 0.200                      | -0.5320 |
| 0.250                       | -0.7114 | 0.250                    | -0.7057 | 0.250                      | -0.5754 |
| 0.300                       | -0.7000 | 0.300                    | -0.6957 | 0.300                      | -0.5815 |
| 0.350                       | -0.6402 | 0.350                    | -0.6532 | 0.350                      | -0.5805 |
| 0.400                       | -0.5813 | 0.400                    | -0.6360 | 0.400                      | -0.5546 |
| 0.450                       | -0.5171 | 0.450                    | -0.5739 | 0.450                      | -0.5205 |
| 0.500                       | -0.5009 | 0.500                    | -0.5477 | 0.500                      | -0.4801 |
| 0.550                       | -0.4358 | 0.550                    | -0.5207 | 0.550                      | -0.4547 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3580 | 0.005 | 0.3597 | 0.005 | 0.2532  |
| 0.010 | 0.0633 | 0.010 | 0.0264 | 0.010 | -0.1558 |

Fight 33 Test point 31

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 19600. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -5.3 QBAR, lb/ft<sup>2</sup> = 343.9 Rnpu = 3014000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0247  | 0.000                    | 1.0591  | 0.000                      | 1.0355  |
| 0.005                       | 0.2359  | 0.005                    | 0.3517  | 0.005                      | 0.6197  |
| 0.010                       | -0.0596 | 0.010                    | 0.0799  | 0.010                      | 0.3355  |
| 0.020                       | -0.3006 | 0.020                    | -0.1970 | 0.020                      | -0.0207 |
| 0.040                       | -0.4837 | 0.040                    | -0.3795 | 0.040                      | -0.2188 |
| 0.060                       | -0.5392 | 0.060                    | -0.4410 | 0.060                      | -0.3273 |
| 0.080                       | -0.5899 | 0.080                    | -0.4853 | 0.080                      | -0.3644 |
| 0.100                       | -0.6039 | 0.100                    | -0.5092 | 0.100                      | -0.3951 |
| 0.125                       | -0.5653 | 0.125                    | -0.5240 | 0.125                      | -0.4174 |
| 0.150                       | -0.6556 | 0.150                    | -0.5645 | 0.150                      | -0.4531 |
| 0.175                       | -0.6483 | 0.175                    | -0.6013 | 0.175                      | -0.4808 |
| 0.200                       | -0.7102 | 0.200                    | -0.6275 | 0.200                      | -0.4980 |
| 0.250                       | -0.7168 | 0.250                    | -0.6907 | 0.250                      | -0.5476 |
| 0.300                       | -0.7016 | 0.300                    | -0.6872 | 0.300                      | -0.5563 |
| 0.350                       | -0.6421 | 0.350                    | -0.6467 | 0.350                      | -0.5685 |
| 0.400                       | -0.5729 | 0.400                    | -0.6357 | 0.400                      | -0.5511 |
| 0.450                       | -0.5114 | 0.450                    | -0.5691 | 0.450                      | -0.5230 |
| 0.500                       | -0.4930 | 0.500                    | -0.5456 | 0.500                      | -0.4665 |
| 0.550                       | -0.4257 | 0.550                    | -0.5176 | 0.550                      | -0.4384 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3419 | 0.005 | 0.3303  | 0.005 | 0.2074  |
| 0.010 | 0.0408 | 0.010 | -0.0263 | 0.010 | -0.2391 |

Fight 33 Test point 32

Sweep, deg = 20.1 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = -0.6 QBAR, lb/ft<sup>2</sup> = 331.9 Rnpu = 2945000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9457  | 0.000                    | 0.9720  | 0.000                      | 0.9659  |
| 0.005                       | -0.1244 | 0.005                    | -0.0168 | 0.005                      | 0.3098  |
| 0.010                       | -0.4296 | 0.010                    | -0.3004 | 0.010                      | -0.0130 |
| 0.020                       | -0.6351 | 0.020                    | -0.5485 | 0.020                      | -0.3784 |
| 0.040                       | -0.7630 | 0.040                    | -0.6981 | 0.040                      | -0.5313 |
| 0.060                       | -0.8059 | 0.060                    | -0.7173 | 0.060                      | -0.6000 |
| 0.080                       | -0.8093 | 0.080                    | -0.7321 | 0.080                      | -0.6051 |
| 0.100                       | -0.8111 | 0.100                    | -0.7339 | 0.100                      | -0.6116 |
| 0.125                       | -0.7133 | 0.125                    | -0.7136 | 0.125                      | -0.6112 |
| 0.150                       | -0.8099 | 0.150                    | -0.7402 | 0.150                      | -0.6289 |
| 0.175                       | -0.7729 | 0.175                    | -0.7693 | 0.175                      | -0.6443 |
| 0.200                       | -0.8401 | 0.200                    | -0.7770 | 0.200                      | -0.6422 |
| 0.250                       | -0.8128 | 0.250                    | -0.8221 | 0.250                      | -0.6673 |
| 0.300                       | -0.7795 | 0.300                    | -0.7870 | 0.300                      | -0.6537 |
| 0.350                       | -0.6982 | 0.350                    | -0.7236 | 0.350                      | -0.6475 |
| 0.400                       | -0.6263 | 0.400                    | -0.6926 | 0.400                      | -0.6040 |
| 0.450                       | -0.5527 | 0.450                    | -0.6121 | 0.450                      | -0.5696 |
| 0.500                       | -0.5318 | 0.500                    | -0.5813 | 0.500                      | -0.5136 |
| 0.550                       | -0.4553 | 0.550                    | -0.5457 | 0.550                      | -0.4763 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5529 | 0.005 | 0.5563 | 0.005 | 0.4665 |
| 0.010 | 0.2941 | 0.010 | 0.2606 | 0.010 | 0.1089 |

Flight 33 Test point 33

Sweep, deg = 20.1 Mach = 0.71 hp, ft = 20100. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 337.1 Rnpu = 2966000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9873  | 0.000                    | 1.0321  | 0.000                      | 1.0355  |
| 0.005                       | -0.0772 | 0.005                    | 0.0565  | 0.005                      | 0.3838  |
| 0.010                       | -0.3833 | 0.010                    | -0.2393 | 0.010                      | 0.0547  |
| 0.020                       | -0.6034 | 0.020                    | -0.5093 | 0.020                      | -0.3253 |
| 0.040                       | -0.7711 | 0.040                    | -0.6738 | 0.040                      | -0.4867 |
| 0.060                       | -0.7930 | 0.060                    | -0.6995 | 0.060                      | -0.5709 |
| 0.080                       | -0.8689 | 0.080                    | -0.7162 | 0.080                      | -0.5839 |
| 0.100                       | -0.8285 | 0.100                    | -0.7204 | 0.100                      | -0.5911 |
| 0.125                       | -0.7313 | 0.125                    | -0.7137 | 0.125                      | -0.5950 |
| 0.150                       | -0.8719 | 0.150                    | -0.7439 | 0.150                      | -0.6151 |
| 0.175                       | -0.7839 | 0.175                    | -0.7834 | 0.175                      | -0.6362 |
| 0.200                       | -0.8825 | 0.200                    | -0.7997 | 0.200                      | -0.6393 |
| 0.250                       | -0.8293 | 0.250                    | -0.8607 | 0.250                      | -0.6818 |
| 0.300                       | -0.7969 | 0.300                    | -0.8213 | 0.300                      | -0.6759 |
| 0.350                       | -0.7143 | 0.350                    | -0.7438 | 0.350                      | -0.6673 |
| 0.400                       | -0.6339 | 0.400                    | -0.7107 | 0.400                      | -0.6024 |
| 0.450                       | -0.5542 | 0.450                    | -0.6235 | 0.450                      | -0.5772 |
| 0.500                       | -0.5275 | 0.500                    | -0.5883 | 0.500                      | -0.5159 |
| 0.550                       | -0.4495 | 0.550                    | -0.5507 | 0.550                      | -0.4729 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5833 | 0.005 | 0.5766 | 0.005 | 0.4803 |
| 0.010 | 0.3136 | 0.010 | 0.2711 | 0.010 | 0.1076 |

Fight 33 Test point 34

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = -0.1  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 384.2 Rnpu = 3193000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9885  | 0.000                    | 1.0105  | 0.000                      | 0.9889  |
| 0.005                       | 0.3257  | 0.005                    | 0.4008  | 0.005                      | 0.6256  |
| 0.010                       | 0.0396  | 0.010                    | -0.1462 | 0.010                      | 0.3583  |
| 0.020                       | -0.2051 | 0.020                    | -0.1282 | 0.020                      | 0.0123  |
| 0.040                       | -0.3834 | 0.040                    | -0.3254 | 0.040                      | -0.1926 |
| 0.060                       | -0.4774 | 0.060                    | -0.3974 | 0.060                      | -0.3105 |
| 0.080                       | -0.5291 | 0.080                    | -0.4518 | 0.080                      | -0.3590 |
| 0.100                       | -0.5606 | 0.100                    | -0.4875 | 0.100                      | -0.3891 |
| 0.125                       | -0.5374 | 0.125                    | -0.5057 | 0.125                      | -0.4266 |
| 0.150                       | -0.6443 | 0.150                    | -0.5609 | 0.150                      | -0.4727 |
| 0.175                       | -0.6400 | 0.175                    | -0.6081 | 0.175                      | -0.5147 |
| 0.200                       | -0.7289 | 0.200                    | -0.6446 | 0.200                      | -0.5305 |
| 0.250                       | -0.7959 | 0.250                    | -0.7417 | 0.250                      | -0.6041 |
| 0.300                       | -0.7626 | 0.300                    | -0.7625 | 0.300                      | -0.6310 |
| 0.350                       | -0.7412 | 0.350                    | -0.7903 | 0.350                      | -0.6370 |
| 0.400                       | -0.6250 | 0.400                    | -0.6605 | 0.400                      | -0.6025 |
| 0.450                       | -0.5410 | 0.450                    | -0.6024 | 0.450                      | -0.5590 |
| 0.500                       | -0.5188 | 0.500                    | -0.5685 | 0.500                      | -0.4996 |
| 0.550                       | -0.4533 | 0.550                    | -0.5333 | 0.550                      | -0.4572 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2495  | 0.005 | 0.2501  | 0.005 | 0.1546  |
| 0.010 | -0.0608 | 0.010 | -0.1092 | 0.010 | -0.2837 |

Fight 33 Test point 35

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = -5.3 QBAR, lb/ft<sup>2</sup> = 385.4 Rnpu = 3196000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0398  | 0.000                    | 1.0678  | 0.000                      | 1.0371  |
| 0.005                       | 0.3725  | 0.005                    | 0.4678  | 0.005                      | 0.6978  |
| 0.010                       | 0.0832  | 0.010                    | 0.2102  | 0.010                      | 0.4334  |
| 0.020                       | -0.1658 | 0.020                    | -0.0698 | 0.020                      | 0.0799  |
| 0.040                       | -0.3602 | 0.040                    | -0.2749 | 0.040                      | -0.1358 |
| 0.060                       | -0.4571 | 0.060                    | -0.3574 | 0.060                      | -0.2583 |
| 0.080                       | -0.5241 | 0.080                    | -0.4186 | 0.080                      | -0.3090 |
| 0.100                       | -0.5558 | 0.100                    | -0.4551 | 0.100                      | -0.3492 |
| 0.125                       | -0.5350 | 0.125                    | -0.4777 | 0.125                      | -0.3890 |
| 0.150                       | -0.6402 | 0.150                    | -0.5273 | 0.150                      | -0.4355 |
| 0.175                       | -0.6393 | 0.175                    | -0.5830 | 0.175                      | -0.4789 |
| 0.200                       | -0.7196 | 0.200                    | -0.6253 | 0.200                      | -0.4959 |
| 0.250                       | -0.8161 | 0.250                    | -0.7509 | 0.250                      | -0.5790 |
| 0.300                       | -0.8562 | 0.300                    | -0.7765 | 0.300                      | -0.6045 |
| 0.350                       | -0.6934 | 0.350                    | -0.8134 | 0.350                      | -0.6296 |
| 0.400                       | -0.6052 | 0.400                    | -0.8180 | 0.400                      | -0.6075 |
| 0.450                       | -0.5260 | 0.450                    | -0.5758 | 0.450                      | -0.5750 |
| 0.500                       | -0.5055 | 0.500                    | -0.5661 | 0.500                      | -0.4906 |
| 0.550                       | -0.4386 | 0.550                    | -0.5340 | 0.550                      | -0.4344 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2704  | 0.005 | 0.2622  | 0.005 | 0.1635  |
| 0.010 | -0.0484 | 0.010 | -0.1087 | 0.010 | -0.2985 |

Fight 33 Test point 36

Sweep, deg = 20.1 Mach = 0.75 hp, ft = 20100, Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 335.4 Rnpu = 3197000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9886  | 0.000                    | 1.0092  | 0.000                      | 0.9924  |
| 0.005                       | 0.2020  | 0.005                    | 0.2838  | 0.005                      | 0.5258  |
| 0.010                       | -0.0910 | 0.010                    | 0.0149  | 0.010                      | 0.2409  |
| 0.020                       | -0.3280 | 0.020                    | -0.2544 | 0.020                      | -0.1164 |
| 0.040                       | -0.4937 | 0.040                    | -0.4431 | 0.040                      | -0.3095 |
| 0.060                       | -0.5872 | 0.060                    | -0.5098 | 0.060                      | -0.4212 |
| 0.080                       | -0.6240 | 0.080                    | -0.5527 | 0.080                      | -0.4598 |
| 0.100                       | -0.6680 | 0.100                    | -0.5891 | 0.100                      | -0.4914 |
| 0.125                       | -0.6093 | 0.125                    | -0.5874 | 0.125                      | -0.5210 |
| 0.150                       | -0.7292 | 0.150                    | -0.6350 | 0.150                      | -0.5608 |
| 0.175                       | -0.7292 | 0.175                    | -0.6614 | 0.175                      | -0.5907 |
| 0.200                       | -0.7967 | 0.200                    | -0.7242 | 0.200                      | -0.6085 |
| 0.250                       | -0.8770 | 0.250                    | -0.8303 | 0.250                      | -0.6742 |
| 0.300                       | -0.9159 | 0.300                    | -0.8704 | 0.300                      | -0.7529 |
| 0.350                       | -0.7515 | 0.350                    | -0.9137 | 0.350                      | -0.7694 |
| 0.400                       | -0.7685 | 0.400                    | -0.9595 | 0.400                      | -0.6273 |
| 0.450                       | -0.5387 | 0.450                    | -0.5320 | 0.450                      | -0.5736 |
| 0.500                       | -0.5233 | 0.500                    | -0.5507 | 0.500                      | -0.5160 |
| 0.550                       | -0.4592 | 0.550                    | -0.5364 | 0.550                      | -0.4631 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3659 | 0.005 | 0.3723 | 0.005 | 0.2888  |
| 0.010 | 0.0700 | 0.010 | 0.0375 | 0.010 | -0.1168 |



Fight 33 Test point 37

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 20200. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -5.2 QBAR, lb/ft<sup>2</sup> = 375.5 Rnpu = 3145000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0391  | 0.000                    | 1.0706  | 0.000                      | 1.0502  |
| 0.005                       | 0.2391  | 0.005                    | 0.3485  | 0.005                      | 0.6001  |
| 0.010                       | -0.0539 | 0.010                    | 0.0722  | 0.010                      | 0.3106  |
| 0.020                       | -0.3013 | 0.020                    | -0.2103 | 0.020                      | -0.0574 |
| 0.040                       | -0.4887 | 0.040                    | -0.4082 | 0.040                      | -0.2611 |
| 0.060                       | -0.5751 | 0.060                    | -0.4737 | 0.060                      | -0.3799 |
| 0.080                       | -0.6252 | 0.080                    | -0.5219 | 0.080                      | -0.4173 |
| 0.100                       | -0.6585 | 0.100                    | -0.5591 | 0.100                      | -0.4488 |
| 0.125                       | -0.6028 | 0.125                    | -0.5725 | 0.125                      | -0.4755 |
| 0.150                       | -0.7243 | 0.150                    | -0.6195 | 0.150                      | -0.5225 |
| 0.175                       | -0.7310 | 0.175                    | -0.6708 | 0.175                      | -0.5624 |
| 0.200                       | -0.8015 | 0.200                    | -0.7084 | 0.200                      | -0.5824 |
| 0.250                       | -0.8837 | 0.250                    | -0.8155 | 0.250                      | -0.6500 |
| 0.300                       | -0.9248 | 0.300                    | -0.8585 | 0.300                      | -0.6729 |
| 0.350                       | -0.8667 | 0.350                    | -0.8986 | 0.350                      | -0.7427 |
| 0.400                       | -0.6002 | 0.400                    | -0.9234 | 0.400                      | -0.6340 |
| 0.450                       | -0.5335 | 0.450                    | -0.5554 | 0.450                      | -0.5878 |
| 0.500                       | -0.5195 | 0.500                    | -0.5703 | 0.500                      | -0.5187 |
| 0.550                       | -0.4475 | 0.550                    | -0.5396 | 0.550                      | -0.4609 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.3923 | 0.005 | 0.3833 | 0.005 | 0.2872  |
| 0.010         | 0.0923 | 0.010 | 0.0363 | 0.010 | -0.1430 |

Fight 33 Test point 38

Sweep, deg = 20.1 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 382.1 Rnpu = 3183000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9754  | 0.000                    | 0.9945  | 0.000                      | 0.9870  |
| 0.005                       | 0.0091  | 0.005                    | 0.1071  | 0.005                      | 0.3822  |
| 0.010                       | -0.2914 | 0.010                    | -0.1761 | 0.010                      | 0.0698  |
| 0.020                       | -0.5171 | 0.020                    | -0.4435 | 0.020                      | -0.3082 |
| 0.040                       | -0.7154 | 0.040                    | -0.6353 | 0.040                      | -0.4900 |
| 0.060                       | -0.7032 | 0.060                    | -0.6778 | 0.060                      | -0.5906 |
| 0.080                       | -0.8413 | 0.080                    | -0.7309 | 0.080                      | -0.6136 |
| 0.100                       | -0.8234 | 0.100                    | -0.6966 | 0.100                      | -0.6243 |
| 0.125                       | -0.7331 | 0.125                    | -0.7657 | 0.125                      | -0.6377 |
| 0.150                       | -0.8302 | 0.150                    | -0.7820 | 0.150                      | -0.7008 |
| 0.175                       | -0.8331 | 0.175                    | -0.7730 | 0.175                      | -0.7727 |
| 0.200                       | -0.9213 | 0.200                    | -0.8144 | 0.200                      | -0.7051 |
| 0.250                       | -1.0032 | 0.250                    | -0.9278 | 0.250                      | -0.7892 |
| 0.300                       | -1.0201 | 0.300                    | -0.9704 | 0.300                      | -0.8161 |
| 0.350                       | -1.0050 | 0.350                    | -1.0287 | 0.350                      | -0.9031 |
| 0.400                       | -0.8016 | 0.400                    | -1.0946 | 0.400                      | -0.8726 |
| 0.450                       | -0.5398 | 0.450                    | -1.0279 | 0.450                      | -0.5133 |
| 0.500                       | -0.5190 | 0.500                    | -0.4801 | 0.500                      | -0.5152 |
| 0.550                       | -0.4623 | 0.550                    | -0.5012 | 0.550                      | -0.4730 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.5202 | 0.005 | 0.5232 | 0.005 | 0.4477 |
| 0.010         | 0.2509 | 0.010 | 0.2201 | 0.010 | 0.0819 |

Fight 33 Test point 39

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 20300. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -5.1 DBAR, lb/ft<sup>2</sup> = 374.3 R<sub>npu</sub> = 3133000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0238  | 0.000                    | 1.0563  | 0.000                      | 1.0459  |
| 0.005                       | 0.0585  | 0.005                    | 0.1737  | 0.005                      | 0.4600  |
| 0.010                       | -0.2447 | 0.010                    | -0.1147 | 0.010                      | 0.1454  |
| 0.020                       | -0.4797 | 0.020                    | -0.3932 | 0.020                      | -0.2395 |
| 0.040                       | -0.6652 | 0.040                    | -0.5861 | 0.040                      | -0.4308 |
| 0.060                       | -0.6963 | 0.060                    | -0.6429 | 0.060                      | -0.5414 |
| 0.080                       | -0.8138 | 0.080                    | -0.6801 | 0.080                      | -0.5691 |
| 0.100                       | -0.9418 | 0.100                    | -0.6764 | 0.100                      | -0.5868 |
| 0.125                       | -0.7211 | 0.125                    | -0.7319 | 0.125                      | -0.6000 |
| 0.150                       | -0.8249 | 0.150                    | -0.7892 | 0.150                      | -0.6576 |
| 0.175                       | -0.8275 | 0.175                    | -0.7579 | 0.175                      | -0.6809 |
| 0.200                       | -0.9228 | 0.200                    | -0.8087 | 0.200                      | -0.6939 |
| 0.250                       | -1.0106 | 0.250                    | -0.9200 | 0.250                      | -0.7726 |
| 0.300                       | -1.0788 | 0.300                    | -0.9640 | 0.300                      | -0.7541 |
| 0.350                       | -1.0543 | 0.350                    | -1.0105 | 0.350                      | -0.8815 |
| 0.400                       | -0.9103 | 0.400                    | -1.0830 | 0.400                      | -0.8327 |
| 0.450                       | -0.4822 | 0.450                    | -1.0795 | 0.450                      | -0.5693 |
| 0.500                       | -0.4910 | 0.500                    | -0.4743 | 0.500                      | -0.5253 |
| 0.550                       | -0.4423 | 0.550                    | -0.5018 | 0.550                      | -0.4717 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5427 | 0.005 | 0.5357 | 0.005 | 0.4504 |
| 0.010 | 0.2651 | 0.010 | 0.2150 | 0.010 | 0.0596 |

Fight 33 Test point 40

Sweep, deg = 25.4 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 385.1 Rnpu = 3197000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9206  | 0.000                    | 0.9312  | 0.000                      | 0.9133  |
| 0.005                       | 0.1971  | 0.005                    | 0.2614  | 0.005                      | 0.4908  |
| 0.010                       | -0.0819 | 0.010                    | 0.0161  | 0.010                      | 0.2283  |
| 0.020                       | -0.3085 | 0.020                    | -0.2351 | 0.020                      | -0.0995 |
| 0.040                       | -0.4625 | 0.040                    | -0.4075 | 0.040                      | -0.2819 |
| 0.060                       | -0.5352 | 0.060                    | -0.4647 | 0.060                      | -0.3795 |
| 0.080                       | -0.5668 | 0.080                    | -0.5097 | 0.080                      | -0.4191 |
| 0.100                       | -0.5896 | 0.100                    | -0.5271 | 0.100                      | -0.4470 |
| 0.125                       | -0.5523 | 0.125                    | -0.5366 | 0.125                      | -0.4687 |
| 0.150                       | -0.6362 | 0.150                    | -0.5826 | 0.150                      | -0.4896 |
| 0.175                       | -0.6381 | 0.175                    | -0.6262 | 0.175                      | -0.5285 |
| 0.200                       | -0.6798 | 0.200                    | -0.6644 | 0.200                      | -0.5333 |
| 0.250                       | -0.7422 | 0.250                    | -0.7455 | 0.250                      | -0.5976 |
| 0.300                       | -0.7115 | 0.300                    | -0.7628 | 0.300                      | -0.6052 |
| 0.350                       | -0.7028 | 0.350                    | -0.6779 | 0.350                      | -0.6073 |
| 0.400                       | -0.5987 | 0.400                    | -0.6502 | 0.400                      | -0.5693 |
| 0.450                       | -0.5255 | 0.450                    | -0.5791 | 0.450                      | -0.5319 |
| 0.500                       | -0.5026 | 0.500                    | -0.5397 | 0.500                      | -0.4716 |
| 0.550                       | -0.4376 | 0.550                    | -0.5120 | 0.550                      | -0.4418 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3017 | 0.005 | 0.3025  | 0.005 | 0.2195  |
| 0.010 | 0.0117 | 0.010 | -0.0122 | 0.010 | -0.1672 |

Fight 33 Test point 41

Sweep, deg = 25.4 Mach = 0.76 hp, ft = 20000. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 392.2 Rnpu = 3230000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9213  | 0.000                    | 0.9297  | 0.000                      | 0.9127  |
| 0.005                       | 0.1456  | 0.005                    | 0.2105  | 0.005                      | 0.4487  |
| 0.010                       | -0.1328 | 0.010                    | -0.0400 | 0.010                      | 0.1759  |
| 0.020                       | -0.3543 | 0.020                    | -0.2919 | 0.020                      | -0.1650 |
| 0.040                       | -0.5093 | 0.040                    | -0.4642 | 0.040                      | -0.3440 |
| 0.060                       | -0.5914 | 0.060                    | -0.5125 | 0.060                      | -0.4412 |
| 0.080                       | -0.6030 | 0.080                    | -0.5498 | 0.080                      | -0.4696 |
| 0.100                       | -0.6434 | 0.100                    | -0.5868 | 0.100                      | -0.4960 |
| 0.125                       | -0.5888 | 0.125                    | -0.5738 | 0.125                      | -0.5254 |
| 0.150                       | -0.6878 | 0.150                    | -0.6263 | 0.150                      | -0.5473 |
| 0.175                       | -0.6516 | 0.175                    | -0.6639 | 0.175                      | -0.5841 |
| 0.200                       | -0.7490 | 0.200                    | -0.7029 | 0.200                      | -0.5828 |
| 0.250                       | -0.8198 | 0.250                    | -0.7992 | 0.250                      | -0.6473 |
| 0.300                       | -0.7847 | 0.300                    | -0.8193 | 0.300                      | -0.6505 |
| 0.350                       | -0.7367 | 0.350                    | -0.8526 | 0.350                      | -0.6536 |
| 0.400                       | -0.6610 | 0.400                    | -0.6133 | 0.400                      | -0.5948 |
| 0.450                       | -0.5380 | 0.450                    | -0.5865 | 0.450                      | -0.5565 |
| 0.500                       | -0.5138 | 0.500                    | -0.5502 | 0.500                      | -0.4868 |
| 0.550                       | -0.4484 | 0.550                    | -0.5161 | 0.550                      | -0.4498 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.3564 | 0.005 | 0.3574 | 0.005 | 0.2779  |
| 0.010         | 0.0788 | 0.010 | 0.0487 | 0.010 | -0.0942 |

Fight 33 Test point 42

Sweep, deg = 25.4 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 384.3 Rnpu = 3194000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8966  | 0.000                    | 0.9022  | 0.000                      | 0.8940  |
| 0.005                       | -0.0728 | 0.005                    | 0.0014  | 0.005                      | 0.2745  |
| 0.010                       | -0.3671 | 0.010                    | -0.2617 | 0.010                      | -0.0291 |
| 0.020                       | -0.5781 | 0.020                    | -0.5052 | 0.020                      | -0.3865 |
| 0.040                       | -0.7340 | 0.040                    | -0.6702 | 0.040                      | -0.5436 |
| 0.060                       | -0.7294 | 0.060                    | -0.6803 | 0.060                      | -0.6293 |
| 0.080                       | -0.8419 | 0.080                    | -0.7374 | 0.080                      | -0.6306 |
| 0.100                       | -0.8055 | 0.100                    | -0.6987 | 0.100                      | -0.6374 |
| 0.125                       | -0.7105 | 0.125                    | -0.8079 | 0.125                      | -0.6610 |
| 0.150                       | -0.8070 | 0.150                    | -0.7469 | 0.150                      | -0.7228 |
| 0.175                       | -0.8001 | 0.175                    | -0.7694 | 0.175                      | -0.7340 |
| 0.200                       | -0.8620 | 0.200                    | -0.7915 | 0.200                      | -0.6837 |
| 0.250                       | -0.9270 | 0.250                    | -0.9009 | 0.250                      | -0.7775 |
| 0.300                       | -0.8428 | 0.300                    | -0.9367 | 0.300                      | -0.8001 |
| 0.350                       | -0.8074 | 0.350                    | -0.9723 | 0.350                      | -0.8001 |
| 0.400                       | -0.6737 | 0.400                    | -0.7398 | 0.400                      | -0.5952 |
| 0.450                       | -0.5514 | 0.450                    | -0.5634 | 0.450                      | -0.5783 |
| 0.500                       | -0.5255 | 0.500                    | -0.5481 | 0.500                      | -0.5103 |
| 0.550                       | -0.4566 | 0.550                    | -0.5243 | 0.550                      | -0.4659 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5134 | 0.005 | 0.5157 | 0.005 | 0.4516 |
| 0.010 | 0.2614 | 0.010 | 0.2427 | 0.010 | 0.1238 |

Fight 33 Test point 43

Sweep, deg = 30.0 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 381.4 R<sub>pu</sub> = 3181000.

Upper surface

| BL 200.8<br>Inboard station |                | BL 260<br>Middle station |                | BL 320<br>Outboard station |                |
|-----------------------------|----------------|--------------------------|----------------|----------------------------|----------------|
| x/c                         | C <sub>p</sub> | x/c                      | C <sub>p</sub> | x/c                        | C <sub>p</sub> |
| 0.000                       | 0.8410         | 0.000                    | 0.8371         | 0.000                      | 0.8251         |
| 0.005                       | 0.0927         | 0.005                    | 0.1380         | 0.005                      | 0.3747         |
| 0.010                       | -0.1708        | 0.010                    | -0.0852        | 0.010                      | 0.1187         |
| 0.020                       | -0.3737        | 0.020                    | -0.3198        | 0.020                      | -0.1774        |
| 0.040                       | -0.4913        | 0.040                    | -0.4484        | 0.040                      | -0.3303        |
| 0.060                       | -0.5459        | 0.060                    | -0.4934        | 0.060                      | -0.4131        |
| 0.080                       | -0.5689        | 0.080                    | -0.5231        | 0.080                      | -0.4344        |
| 0.100                       | -0.5793        | 0.100                    | -0.5346        | 0.100                      | -0.4566        |
| 0.125                       | -0.5364        | 0.125                    | -0.5400        | 0.125                      | -0.4679        |
| 0.150                       | -0.6109        | 0.150                    | -0.5726        | 0.150                      | -0.4860        |
| 0.175                       | -0.6030        | 0.175                    | -0.5978        | 0.175                      | -0.5141        |
| 0.200                       | -0.6497        | 0.200                    | -0.6143        | 0.200                      | -0.5148        |
| 0.250                       | -0.6527        | 0.250                    | -0.6637        | 0.250                      | -0.5519        |
| 0.300                       | -0.6455        | 0.300                    | -0.6415        | 0.300                      | -0.5465        |
| 0.350                       | -0.6016        | 0.350                    | -0.6048        | 0.350                      | -0.5428        |
| 0.400                       | -0.5490        | 0.400                    | -0.5837        | 0.400                      | -0.5132        |
| 0.450                       | -0.4850        | 0.450                    | -0.5250        | 0.450                      | -0.4814        |
| 0.500                       | -0.4679        | 0.500                    | -0.4925        | 0.500                      | -0.4312        |
| 0.550                       | -0.4099        | 0.550                    | -0.4754        | 0.550                      | -0.4173        |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3286 | 0.005 | 0.3336 | 0.005 | 0.2547  |
| 0.010 | 0.0733 | 0.010 | 0.0574 | 0.010 | -0.0750 |

Fight 33 Test point 44

Sweep, deg = 30.0 Mach = 0.75 hp, ft = 20100. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 386.3 Rnpu = 3201000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8211  | 0.000                    | 0.8157  | 0.000                      | 0.8107  |
| 0.005                       | -0.1059 | 0.005                    | -0.0421 | 0.005                      | 0.2185  |
| 0.010                       | -0.3853 | 0.010                    | -0.2720 | 0.010                      | -0.0605 |
| 0.020                       | -0.5764 | 0.020                    | -0.5083 | 0.020                      | -0.3767 |
| 0.040                       | -0.6545 | 0.040                    | -0.6423 | 0.040                      | -0.5036 |
| 0.060                       | -0.7054 | 0.060                    | -0.6574 | 0.060                      | -0.5696 |
| 0.080                       | -0.8368 | 0.080                    | -0.6611 | 0.080                      | -0.5784 |
| 0.100                       | -0.6894 | 0.100                    | -0.7010 | 0.100                      | -0.5959 |
| 0.125                       | -0.6462 | 0.125                    | -0.6662 | 0.125                      | -0.6146 |
| 0.150                       | -0.7303 | 0.150                    | -0.6810 | 0.150                      | -0.6027 |
| 0.175                       | -0.6834 | 0.175                    | -0.7113 | 0.175                      | -0.6233 |
| 0.200                       | -0.7572 | 0.200                    | -0.7452 | 0.200                      | -0.6114 |
| 0.250                       | -0.7831 | 0.250                    | -0.7810 | 0.250                      | -0.6641 |
| 0.300                       | -0.7178 | 0.300                    | -0.7987 | 0.300                      | -0.6305 |
| 0.350                       | -0.6945 | 0.350                    | -0.6564 | 0.350                      | -0.6100 |
| 0.400                       | -0.5998 | 0.400                    | -0.6306 | 0.400                      | -0.5627 |
| 0.450                       | -0.5198 | 0.450                    | -0.5607 | 0.450                      | -0.5167 |
| 0.500                       | -0.4908 | 0.500                    | -0.5245 | 0.500                      | -0.4506 |
| 0.550                       | -0.4260 | 0.550                    | -0.4958 | 0.550                      | -0.4280 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4654 | 0.005 | 0.4692 | 0.005 | 0.4104 |
| 0.010 | 0.2327 | 0.010 | 0.2227 | 0.010 | 0.1190 |



Fight 33 Test point 45

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = -0.3  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 434.8 Rnpu = 3418000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9924  | 0.000                    | 1.0065  | 0.000                      | 0.9849  |
| 0.005                       | 0.4424  | 0.005                    | 0.5110  | 0.005                      | 0.6921  |
| 0.010                       | 0.1681  | 0.010                    | 0.2711  | 0.010                      | 0.4484  |
| 0.020                       | -0.0723 | 0.020                    | -0.0003 | 0.020                      | 0.1173  |
| 0.040                       | -0.2675 | 0.040                    | -0.2008 | 0.040                      | -0.0948 |
| 0.060                       | -0.3679 | 0.060                    | -0.2896 | 0.060                      | -0.2252 |
| 0.080                       | -0.4333 | 0.080                    | -0.3524 | 0.080                      | -0.2785 |
| 0.100                       | -0.4763 | 0.100                    | -0.3996 | 0.100                      | -0.3214 |
| 0.125                       | -0.4786 | 0.125                    | -0.4171 | 0.125                      | -0.3659 |
| 0.150                       | -0.5707 | 0.150                    | -0.4824 | 0.150                      | -0.4214 |
| 0.175                       | -0.5966 | 0.175                    | -0.5164 | 0.175                      | -0.4646 |
| 0.200                       | -0.6656 | 0.200                    | -0.5760 | 0.200                      | -0.4788 |
| 0.250                       | -0.7501 | 0.250                    | -0.6942 | 0.250                      | -0.5931 |
| 0.300                       | -0.8252 | 0.300                    | -0.7528 | 0.300                      | -0.6339 |
| 0.350                       | -0.8448 | 0.350                    | -0.8273 | 0.350                      | -0.7247 |
| 0.400                       | -0.8578 | 0.400                    | -0.9015 | 0.400                      | -0.7683 |
| 0.450                       | -0.8695 | 0.450                    | -0.9200 | 0.450                      | -0.8439 |
| 0.500                       | -0.8905 | 0.500                    | -0.9674 | 0.500                      | -0.8718 |
| 0.550                       | -0.4261 | 0.550                    | -0.9974 | 0.550                      | -0.8532 |

| Lower surface |         |       |         |       |         |
|---------------|---------|-------|---------|-------|---------|
| 0.005         | 0.1982  | 0.005 | 0.2007  | 0.005 | 0.1324  |
| 0.010         | -0.1235 | 0.010 | -0.1644 | 0.010 | -0.3087 |

Fight 33 Test point 46

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 436.5 Rnpu = 3424000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0476  | 0.000                    | 1.0735  | 0.000                      | 1.0478  |
| 0.005                       | 0.4719  | 0.005                    | 0.5664  | 0.005                      | 0.7545  |
| 0.010                       | 0.1966  | 0.010                    | 0.3181  | 0.010                      | 0.5054  |
| 0.020                       | -0.0519 | 0.020                    | 0.0404  | 0.020                      | 0.1639  |
| 0.040                       | -0.2567 | 0.040                    | -0.1695 | 0.040                      | -0.0533 |
| 0.060                       | -0.3610 | 0.060                    | -0.2593 | 0.060                      | -0.1874 |
| 0.080                       | -0.4325 | 0.080                    | -0.3280 | 0.080                      | -0.2466 |
| 0.100                       | -0.4797 | 0.100                    | -0.3764 | 0.100                      | -0.2901 |
| 0.125                       | -0.4755 | 0.125                    | -0.4033 | 0.125                      | -0.3340 |
| 0.150                       | -0.5590 | 0.150                    | -0.4612 | 0.150                      | -0.3937 |
| 0.175                       | -0.6042 | 0.175                    | -0.5104 | 0.175                      | -0.4417 |
| 0.200                       | -0.6790 | 0.200                    | -0.5572 | 0.200                      | -0.4697 |
| 0.250                       | -0.7705 | 0.250                    | -0.6840 | 0.250                      | -0.5780 |
| 0.300                       | -0.8504 | 0.300                    | -0.7416 | 0.300                      | -0.5963 |
| 0.350                       | -0.8658 | 0.350                    | -0.8112 | 0.350                      | -0.7246 |
| 0.400                       | -0.8800 | 0.400                    | -0.8992 | 0.400                      | -0.7540 |
| 0.450                       | -0.9038 | 0.450                    | -0.9218 | 0.450                      | -0.8108 |
| 0.500                       | -0.9917 | 0.500                    | -0.9796 | 0.500                      | -0.8515 |
| 0.550                       | -0.6391 | 0.550                    | -1.0129 | 0.550                      | -0.8584 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2459  | 0.005 | 0.2392  | 0.005 | 0.1701  |
| 0.010 | -0.0750 | 0.010 | -0.1388 | 0.010 | -0.2827 |

Fight 33 Test point 47

Sweep, deg = 20.0 Mach = 0.81 hp, ft = 20000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 439.4 R<sub>npu</sub> = 3440000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0032  | 0.000                    | 1.0206  | 0.000                      | 0.9962  |
| 0.005                       | 0.3815  | 0.005                    | 0.4565  | 0.005                      | 0.6518  |
| 0.010                       | 0.1045  | 0.010                    | 0.2106  | 0.010                      | 0.4005  |
| 0.020                       | -0.1361 | 0.020                    | -0.0592 | 0.020                      | 0.0604  |
| 0.040                       | -0.3212 | 0.040                    | -0.2598 | 0.040                      | -0.1431 |
| 0.060                       | -0.4242 | 0.060                    | -0.3419 | 0.060                      | -0.2707 |
| 0.080                       | -0.4726 | 0.080                    | -0.4016 | 0.080                      | -0.3246 |
| 0.100                       | -0.5357 | 0.100                    | -0.4478 | 0.100                      | -0.3660 |
| 0.125                       | -0.5279 | 0.125                    | -0.4874 | 0.125                      | -0.4118 |
| 0.150                       | -0.6034 | 0.150                    | -0.5004 | 0.150                      | -0.4806 |
| 0.175                       | -0.6316 | 0.175                    | -0.5793 | 0.175                      | -0.5073 |
| 0.200                       | -0.7010 | 0.200                    | -0.5916 | 0.200                      | -0.5279 |
| 0.250                       | -0.7934 | 0.250                    | -0.7298 | 0.250                      | -0.6079 |
| 0.300                       | -0.8469 | 0.300                    | -0.7835 | 0.300                      | -0.6610 |
| 0.350                       | -0.8783 | 0.350                    | -0.8564 | 0.350                      | -0.7630 |
| 0.400                       | -0.9019 | 0.400                    | -0.9309 | 0.400                      | -0.8038 |
| 0.450                       | -0.9263 | 0.450                    | -0.9552 | 0.450                      | -0.8824 |
| 0.500                       | -1.0242 | 0.500                    | -1.0086 | 0.500                      | -0.9069 |
| 0.550                       | -0.5953 | 0.550                    | -0.9641 | 0.550                      | -0.9155 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2739  | 0.005 | 0.2704  | 0.005 | 0.1947  |
| 0.010 | -0.0386 | 0.010 | -0.0812 | 0.010 | -0.2318 |

Fight 33 Test point 48

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20200. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 431.2 Rnpu = 3395000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0530  | 0.000                    | 1.0818  | 0.000                      | 1.0572  |
| 0.005                       | 0.4135  | 0.005                    | 0.5110  | 0.005                      | 0.7161  |
| 0.010                       | 0.1295  | 0.010                    | 0.2548  | 0.010                      | 0.4573  |
| 0.020                       | -0.1173 | 0.020                    | -0.0200 | 0.020                      | 0.1100  |
| 0.040                       | -0.3165 | 0.040                    | -0.2206 | 0.040                      | -0.1044 |
| 0.060                       | -0.4164 | 0.060                    | -0.3210 | 0.060                      | -0.2376 |
| 0.080                       | -0.4868 | 0.080                    | -0.3821 | 0.080                      | -0.2950 |
| 0.100                       | -0.5401 | 0.100                    | -0.4257 | 0.100                      | -0.3384 |
| 0.125                       | -0.5365 | 0.125                    | -0.4522 | 0.125                      | -0.3805 |
| 0.150                       | -0.6092 | 0.150                    | -0.4926 | 0.150                      | -0.4387 |
| 0.175                       | -0.6394 | 0.175                    | -0.5648 | 0.175                      | -0.4798 |
| 0.200                       | -0.7240 | 0.200                    | -0.5789 | 0.200                      | -0.5003 |
| 0.250                       | -0.8142 | 0.250                    | -0.7244 | 0.250                      | -0.6018 |
| 0.300                       | -0.8918 | 0.300                    | -0.7781 | 0.300                      | -0.6393 |
| 0.350                       | -0.9084 | 0.350                    | -0.8459 | 0.350                      | -0.7579 |
| 0.400                       | -0.9291 | 0.400                    | -0.9322 | 0.400                      | -0.8001 |
| 0.450                       | -0.9498 | 0.450                    | -0.9563 | 0.450                      | -0.8503 |
| 0.500                       | -1.0199 | 0.500                    | -1.0174 | 0.500                      | -0.8727 |
| 0.550                       | -0.6206 | 0.550                    | -0.9876 | 0.550                      | -0.8854 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.3088  | 0.005 | 0.2984  | 0.005 | 0.2199  |
| 0.010 | -0.0054 | 0.010 | -0.0674 | 0.010 | -0.2225 |

Flight 33 Test point 49

Sweep, deg = 20.0 Mach = 0.81 hp, ft = 20200. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 438.4 Rnpu = 3430000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0074  | 0.000                    | 1.0259  | 0.000                      | 1.0030  |
| 0.005                       | 0.3517  | 0.005                    | 0.4337  | 0.005                      | 0.6365  |
| 0.010                       | 0.0711  | 0.010                    | 0.1834  | 0.010                      | 0.3797  |
| 0.020                       | -0.1669 | 0.020                    | -0.0875 | 0.020                      | 0.0341  |
| 0.040                       | -0.3460 | 0.040                    | -0.2909 | 0.040                      | -0.1709 |
| 0.060                       | -0.4443 | 0.060                    | -0.3713 | 0.060                      | -0.2938 |
| 0.080                       | -0.5731 | 0.080                    | -0.4247 | 0.080                      | -0.3474 |
| 0.100                       | -0.5598 | 0.100                    | -0.4635 | 0.100                      | -0.3851 |
| 0.125                       | -0.5537 | 0.125                    | -0.5490 | 0.125                      | -0.4268 |
| 0.150                       | -0.6250 | 0.150                    | -0.4894 | 0.150                      | -0.5053 |
| 0.175                       | -0.6547 | 0.175                    | -0.5906 | 0.175                      | -0.5066 |
| 0.200                       | -0.7207 | 0.200                    | -0.6188 | 0.200                      | -0.5349 |
| 0.250                       | -0.8168 | 0.250                    | -0.7468 | 0.250                      | -0.6310 |
| 0.300                       | -0.8857 | 0.300                    | -0.7918 | 0.300                      | -0.6865 |
| 0.350                       | -0.8909 | 0.350                    | -0.8643 | 0.350                      | -0.7897 |
| 0.400                       | -0.9023 | 0.400                    | -0.9441 | 0.400                      | -0.8164 |
| 0.450                       | -0.9403 | 0.450                    | -0.9696 | 0.450                      | -0.8873 |
| 0.500                       | -1.0458 | 0.500                    | -1.0282 | 0.500                      | -0.9180 |
| 0.550                       | -0.6284 | 0.550                    | -0.7932 | 0.550                      | -0.9325 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3084 | 0.005 | 0.3004  | 0.005 | 0.2236  |
| 0.010 | 0.0012 | 0.010 | -0.0469 | 0.010 | -0.1967 |

Fight 33 Test point 50

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20200. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -5.3 QBAR, lb/ft<sup>2</sup> = 433.9 Rnpu = 3407000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0597  | 0.000                    | 1.0849  | 0.000                      | 1.0616  |
| 0.005                       | 0.4058  | 0.005                    | 0.5063  | 0.005                      | 0.7102  |
| 0.010                       | 0.1226  | 0.010                    | 0.2460  | 0.010                      | 0.4506  |
| 0.020                       | -0.1228 | 0.020                    | -0.0299 | 0.020                      | 0.0987  |
| 0.040                       | -0.3239 | 0.040                    | -0.2381 | 0.040                      | -0.1156 |
| 0.060                       | -0.4203 | 0.060                    | -0.3229 | 0.060                      | -0.2494 |
| 0.080                       | -0.5165 | 0.080                    | -0.3870 | 0.080                      | -0.3029 |
| 0.100                       | -0.5407 | 0.100                    | -0.4285 | 0.100                      | -0.3409 |
| 0.125                       | -0.5349 | 0.125                    | -0.4765 | 0.125                      | -0.3801 |
| 0.150                       | -0.6088 | 0.150                    | -0.4964 | 0.150                      | -0.4424 |
| 0.175                       | -0.6463 | 0.175                    | -0.5725 | 0.175                      | -0.4858 |
| 0.200                       | -0.7291 | 0.200                    | -0.5870 | 0.200                      | -0.5106 |
| 0.250                       | -0.8148 | 0.250                    | -0.7183 | 0.250                      | -0.6008 |
| 0.300                       | -0.8972 | 0.300                    | -0.7742 | 0.300                      | -0.6507 |
| 0.350                       | -0.9064 | 0.350                    | -0.8455 | 0.350                      | -0.7509 |
| 0.400                       | -0.9298 | 0.400                    | -0.9382 | 0.400                      | -0.8007 |
| 0.450                       | -0.9619 | 0.450                    | -0.9703 | 0.450                      | -0.8547 |
| 0.500                       | -1.0473 | 0.500                    | -1.0217 | 0.500                      | -0.8906 |
| 0.550                       | -0.5699 | 0.550                    | -0.8942 | 0.550                      | -0.8876 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3254 | 0.005 | 0.3159  | 0.005 | 0.2391  |
| 0.010 | 0.0122 | 0.010 | -0.0479 | 0.010 | -0.2032 |

Flight 34 Test point 1

Sweep, deg = 20.0 Mach = 0.60 hp, ft = 10000. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 372.1 Rnpu = 3596000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9373  | 0.000                    | 0.9638  | 0.000                      | 0.9516  |
| 0.005                       | -0.0168 | 0.005                    | 0.1031  | 0.005                      | 0.4193  |
| 0.010                       | -0.2959 | 0.010                    | -0.1625 | 0.010                      | 0.1204  |
| 0.020                       | -0.4895 | 0.020                    | -0.3970 | 0.020                      | -0.2129 |
| 0.040                       | -0.5758 | 0.040                    | -0.5115 | 0.040                      | -0.3551 |
| 0.060                       | -0.5975 | 0.060                    | -0.5323 | 0.060                      | -0.4176 |
| 0.080                       | -0.6154 | 0.080                    | -0.5461 | 0.080                      | -0.4319 |
| 0.100                       | -0.6129 | 0.100                    | -0.5473 | 0.100                      | -0.4459 |
| 0.125                       | -0.5494 | 0.125                    | -0.5462 | 0.125                      | -0.4484 |
| 0.150                       | -0.6177 | 0.150                    | -0.5650 | 0.150                      | -0.4620 |
| 0.175                       | -0.5935 | 0.175                    | -0.5731 | 0.175                      | -0.4786 |
| 0.200                       | -0.6354 | 0.200                    | -0.5824 | 0.200                      | -0.4805 |
| 0.250                       | -0.6288 | 0.250                    | -0.6111 | 0.250                      | -0.4982 |
| 0.300                       | -0.6082 | 0.300                    | -0.5894 | 0.300                      | -0.4929 |
| 0.350                       | -0.5670 | 0.350                    | -0.5630 | 0.350                      | -0.4953 |
| 0.400                       | -0.5173 | 0.400                    | -0.5541 | 0.400                      | -0.4812 |
| 0.450                       | -0.4671 | 0.450                    | -0.5083 | 0.450                      | -0.4622 |
| 0.500                       | -0.4544 | 0.500                    | -0.4958 | 0.500                      | -0.4323 |
| 0.550                       | -0.4044 | 0.550                    | -0.4903 | 0.550                      | -0.4418 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4120 | 0.005 | 0.3962 | 0.005 | 0.2696  |
| 0.010 | 0.1390 | 0.010 | 0.0892 | 0.010 | -0.1153 |

Flight 34 Test point 2

Sweep, deg = 20.0 Mach = 0.60 hp, ft = 10000. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 371.9 Rnpu = 3601000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9258  | 0.000                    | 0.9506  | 0.000                      | 0.9498  |
| 0.005                       | -0.1277 | 0.005                    | 0.0045  | 0.005                      | 0.3422  |
| 0.010                       | -0.4037 | 0.010                    | -0.2639 | 0.010                      | 0.0345  |
| 0.020                       | -0.5838 | 0.020                    | -0.4881 | 0.020                      | -0.3026 |
| 0.040                       | -0.6507 | 0.040                    | -0.5892 | 0.040                      | -0.4279 |
| 0.060                       | -0.6594 | 0.060                    | -0.5932 | 0.060                      | -0.4805 |
| 0.080                       | -0.6710 | 0.080                    | -0.6002 | 0.080                      | -0.4839 |
| 0.100                       | -0.6619 | 0.100                    | -0.5960 | 0.100                      | -0.4893 |
| 0.125                       | -0.5864 | 0.125                    | -0.5918 | 0.125                      | -0.4866 |
| 0.150                       | -0.6542 | 0.150                    | -0.5943 | 0.150                      | -0.5007 |
| 0.175                       | -0.6315 | 0.175                    | -0.6075 | 0.175                      | -0.5116 |
| 0.200                       | -0.6663 | 0.200                    | -0.6138 | 0.200                      | -0.5037 |
| 0.250                       | -0.6569 | 0.250                    | -0.6404 | 0.250                      | -0.5239 |
| 0.300                       | -0.6348 | 0.300                    | -0.6172 | 0.300                      | -0.5142 |
| 0.350                       | -0.5815 | 0.350                    | -0.5859 | 0.350                      | -0.5144 |
| 0.400                       | -0.5320 | 0.400                    | -0.5741 | 0.400                      | -0.5006 |
| 0.450                       | -0.4803 | 0.450                    | -0.5206 | 0.450                      | -0.4767 |
| 0.500                       | -0.4669 | 0.500                    | -0.5028 | 0.500                      | -0.4445 |
| 0.550                       | -0.4125 | 0.550                    | -0.4929 | 0.550                      | -0.4532 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4847 | 0.005 | 0.4705 | 0.005 | 0.3544  |
| 0.010 | 0.2187 | 0.010 | 0.1766 | 0.010 | -0.0113 |



Fight 34 Test point 3

Sweep, deg = 23.4 Mach = 0.60 hp, ft = 10000. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 368.8 Rnpu = 3586000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9007  | 0.000                    | 0.9186  | 0.000                      | 0.9096  |
| 0.005                       | -0.0143 | 0.005                    | 0.0977  | 0.005                      | 0.4018  |
| 0.010                       | -0.2817 | 0.010                    | -0.1554 | 0.010                      | 0.1193  |
| 0.020                       | -0.4638 | 0.020                    | -0.3732 | 0.020                      | -0.1996 |
| 0.040                       | -0.5397 | 0.040                    | -0.4871 | 0.040                      | -0.3376 |
| 0.060                       | -0.5650 | 0.060                    | -0.4917 | 0.060                      | -0.3961 |
| 0.080                       | -0.5790 | 0.080                    | -0.5005 | 0.080                      | -0.4109 |
| 0.100                       | -0.5777 | 0.100                    | -0.5063 | 0.100                      | -0.4208 |
| 0.125                       | -0.5186 | 0.125                    | -0.5123 | 0.125                      | -0.4232 |
| 0.150                       | -0.5827 | 0.150                    | -0.5302 | 0.150                      | -0.4412 |
| 0.175                       | -0.5683 | 0.175                    | -0.5442 | 0.175                      | -0.4507 |
| 0.200                       | -0.6029 | 0.200                    | -0.5523 | 0.200                      | -0.4403 |
| 0.250                       | -0.5967 | 0.250                    | -0.5808 | 0.250                      | -0.4783 |
| 0.300                       | -0.5781 | 0.300                    | -0.5637 | 0.300                      | -0.4689 |
| 0.350                       | -0.5359 | 0.350                    | -0.5338 | 0.350                      | -0.4718 |
| 0.400                       | -0.4954 | 0.400                    | -0.5257 | 0.400                      | -0.4637 |
| 0.450                       | -0.4464 | 0.450                    | -0.4840 | 0.450                      | -0.4435 |
| 0.500                       | -0.4406 | 0.500                    | -0.4693 | 0.500                      | -0.4169 |
| 0.550                       | -0.3894 | 0.550                    | -0.4632 | 0.550                      | -0.4340 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3809 | 0.005 | 0.3640 | 0.005 | 0.2400  |
| 0.010 | 0.1150 | 0.010 | 0.0659 | 0.010 | -0.1279 |

Fight 34 Test point 4

Sweep, deg = 23.4 Mach = 0.60 hp, ft = 10100. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 364.2 Rnpu = 3558000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8382  | 0.000                    | 0.9190  | 0.000                      | 0.9082  |
| 0.005                       | -0.0088 | 0.005                    | 0.1006  | 0.005                      | 0.4030  |
| 0.010                       | -0.2753 | 0.010                    | -0.1534 | 0.010                      | 0.1225  |
| 0.020                       | -0.4587 | 0.020                    | -0.3685 | 0.020                      | -0.1993 |
| 0.040                       | -0.5325 | 0.040                    | -0.4806 | 0.040                      | -0.3357 |
| 0.060                       | -0.5583 | 0.060                    | -0.4892 | 0.060                      | -0.3956 |
| 0.080                       | -0.5774 | 0.080                    | -0.5007 | 0.080                      | -0.4053 |
| 0.100                       | -0.5734 | 0.100                    | -0.5013 | 0.100                      | -0.4164 |
| 0.125                       | -0.5182 | 0.125                    | -0.5075 | 0.125                      | -0.4203 |
| 0.150                       | -0.5803 | 0.150                    | -0.5273 | 0.150                      | -0.4396 |
| 0.175                       | -0.5649 | 0.175                    | -0.5391 | 0.175                      | -0.4446 |
| 0.200                       | -0.5968 | 0.200                    | -0.5487 | 0.200                      | -0.4386 |
| 0.250                       | -0.5945 | 0.250                    | -0.5757 | 0.250                      | -0.4715 |
| 0.300                       | -0.5787 | 0.300                    | -0.5599 | 0.300                      | -0.4673 |
| 0.350                       | -0.5356 | 0.350                    | -0.5322 | 0.350                      | -0.4707 |
| 0.400                       | -0.4957 | 0.400                    | -0.5243 | 0.400                      | -0.4597 |
| 0.450                       | -0.4485 | 0.450                    | -0.4795 | 0.450                      | -0.4374 |
| 0.500                       | -0.4378 | 0.500                    | -0.4638 | 0.500                      | -0.4099 |
| 0.550                       | -0.3906 | 0.550                    | -0.4588 | 0.550                      | -0.4261 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.3714 | 0.005 | 0.3627 | 0.005 | 0.2363  |
| 0.010         | 0.1089 | 0.010 | 0.0630 | 0.010 | -0.1339 |

Fight 34 Test point 5

Sweep, deg = 23.4 Mach = 0.60 hp, ft = 9900. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 371.4 Rnpu = 3604000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8744  | 0.000                    | 0.8949  | 0.000                      | 0.8997  |
| 0.005                       | -0.1710 | 0.005                    | -0.0489 | 0.005                      | 0.2890  |
| 0.010                       | -0.4396 | 0.010                    | -0.3025 | 0.010                      | -0.0111 |
| 0.020                       | -0.6011 | 0.020                    | -0.5107 | 0.020                      | -0.3336 |
| 0.040                       | -0.6476 | 0.040                    | -0.5986 | 0.040                      | -0.4439 |
| 0.060                       | -0.6555 | 0.060                    | -0.6018 | 0.060                      | -0.4888 |
| 0.080                       | -0.6596 | 0.080                    | -0.5998 | 0.080                      | -0.4898 |
| 0.100                       | -0.6475 | 0.100                    | -0.5912 | 0.100                      | -0.4935 |
| 0.125                       | -0.5719 | 0.125                    | -0.5825 | 0.125                      | -0.4884 |
| 0.150                       | -0.6399 | 0.150                    | -0.5863 | 0.150                      | -0.4986 |
| 0.175                       | -0.6167 | 0.175                    | -0.5996 | 0.175                      | -0.5013 |
| 0.200                       | -0.6485 | 0.200                    | -0.6040 | 0.200                      | -0.4909 |
| 0.250                       | -0.6381 | 0.250                    | -0.6248 | 0.250                      | -0.5174 |
| 0.300                       | -0.6147 | 0.300                    | -0.6024 | 0.300                      | -0.5096 |
| 0.350                       | -0.5680 | 0.350                    | -0.5693 | 0.350                      | -0.5092 |
| 0.400                       | -0.5205 | 0.400                    | -0.5561 | 0.400                      | -0.4940 |
| 0.450                       | -0.4692 | 0.450                    | -0.5083 | 0.450                      | -0.4700 |
| 0.500                       | -0.4546 | 0.500                    | -0.4902 | 0.500                      | -0.4399 |
| 0.550                       | -0.4053 | 0.550                    | -0.4798 | 0.550                      | -0.4534 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4830 | 0.005 | 0.4648 | 0.005 | 0.3569 |
| 0.010 | 0.2318 | 0.010 | 0.1871 | 0.010 | 0.0103 |

Fight 34 Test point 6

Sweep, deg = 25.0 Mach = 0.60 hp, ft = 10000. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 365.8 Rnpu = 3573000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8789  | 0.000                    | 0.8911  | 0.000                      | 0.8821  |
| 0.005                       | -0.0122 | 0.005                    | 0.0828  | 0.005                      | 0.3826  |
| 0.010                       | -0.2722 | 0.010                    | -0.1586 | 0.010                      | 0.1057  |
| 0.020                       | -0.4485 | 0.020                    | -0.3755 | 0.020                      | -0.2057 |
| 0.040                       | -0.5271 | 0.040                    | -0.4640 | 0.040                      | -0.3349 |
| 0.060                       | -0.5486 | 0.060                    | -0.4751 | 0.060                      | -0.3935 |
| 0.080                       | -0.5611 | 0.080                    | -0.4875 | 0.080                      | -0.4017 |
| 0.100                       | -0.5577 | 0.100                    | -0.4909 | 0.100                      | -0.4103 |
| 0.125                       | -0.5018 | 0.125                    | -0.4989 | 0.125                      | -0.4138 |
| 0.150                       | -0.5633 | 0.150                    | -0.5156 | 0.150                      | -0.4151 |
| 0.175                       | -0.5515 | 0.175                    | -0.5260 | 0.175                      | -0.4339 |
| 0.200                       | -0.5808 | 0.200                    | -0.5342 | 0.200                      | -0.4335 |
| 0.250                       | -0.5765 | 0.250                    | -0.5597 | 0.250                      | -0.4638 |
| 0.300                       | -0.5594 | 0.300                    | -0.5471 | 0.300                      | -0.4566 |
| 0.350                       | -0.5218 | 0.350                    | -0.5193 | 0.350                      | -0.4610 |
| 0.400                       | -0.4811 | 0.400                    | -0.5145 | 0.400                      | -0.4524 |
| 0.450                       | -0.4356 | 0.450                    | -0.4690 | 0.450                      | -0.4371 |
| 0.500                       | -0.4268 | 0.500                    | -0.4525 | 0.500                      | -0.4134 |
| 0.550                       | -0.3813 | 0.550                    | -0.4473 | 0.550                      | -0.4299 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.3690 | 0.005 | 0.3565 | 0.005 | 0.2362  |
| 0.010         | 0.1061 | 0.010 | 0.0683 | 0.010 | -0.1200 |

Fight 34 Test point 7

Sweep, deg = 25.0 Mach = 0.61 hp, ft = 9900. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 373.8 Rnpu = 3619000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8803  | 0.000                    | 0.8931  | 0.000                      | 0.8836  |
| 0.005                       | 0.0331  | 0.005                    | 0.1310  | 0.005                      | 0.4153  |
| 0.010                       | -0.2267 | 0.010                    | -0.1095 | 0.010                      | 0.1462  |
| 0.020                       | -0.4123 | 0.020                    | -0.3273 | 0.020                      | -0.1636 |
| 0.040                       | -0.4953 | 0.040                    | -0.4262 | 0.040                      | -0.2998 |
| 0.060                       | -0.5171 | 0.060                    | -0.4523 | 0.060                      | -0.3638 |
| 0.080                       | -0.5347 | 0.080                    | -0.4701 | 0.080                      | -0.3822 |
| 0.100                       | -0.5391 | 0.100                    | -0.4717 | 0.100                      | -0.3936 |
| 0.125                       | -0.4882 | 0.125                    | -0.4793 | 0.125                      | -0.4000 |
| 0.150                       | -0.5504 | 0.150                    | -0.4958 | 0.150                      | -0.3997 |
| 0.175                       | -0.5379 | 0.175                    | -0.5146 | 0.175                      | -0.4221 |
| 0.200                       | -0.5697 | 0.200                    | -0.5278 | 0.200                      | -0.4207 |
| 0.250                       | -0.5658 | 0.250                    | -0.5565 | 0.250                      | -0.4565 |
| 0.300                       | -0.5509 | 0.300                    | -0.5383 | 0.300                      | -0.4520 |
| 0.350                       | -0.5159 | 0.350                    | -0.5117 | 0.350                      | -0.4610 |
| 0.400                       | -0.4764 | 0.400                    | -0.5022 | 0.400                      | -0.4482 |
| 0.450                       | -0.4317 | 0.450                    | -0.4613 | 0.450                      | -0.4293 |
| 0.500                       | -0.4213 | 0.500                    | -0.4522 | 0.500                      | -0.4092 |
| 0.550                       | -0.3772 | 0.550                    | -0.4480 | 0.550                      | -0.4272 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.3293 | 0.005 | 0.3176 | 0.005 | 0.1961  |
| 0.010         | 0.0658 | 0.010 | 0.0209 | 0.010 | -0.1662 |

Fight 34 Test point 8

Sweep, deg = 25.0 Mach = 0.60 hp, ft = 10000. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 370.0 R<sub>npu</sub> = 3600000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8455  | 0.000                    | 0.8600  | 0.000                      | 0.8683  |
| 0.005                       | -0.2517 | 0.005                    | -0.1327 | 0.005                      | 0.2131  |
| 0.010                       | -0.5100 | 0.010                    | -0.3813 | 0.010                      | -0.0838 |
| 0.020                       | -0.6543 | 0.020                    | -0.5700 | 0.020                      | -0.3978 |
| 0.040                       | -0.6805 | 0.040                    | -0.6367 | 0.040                      | -0.4900 |
| 0.060                       | -0.6802 | 0.060                    | -0.6227 | 0.060                      | -0.5177 |
| 0.080                       | -0.6795 | 0.080                    | -0.6224 | 0.080                      | -0.5114 |
| 0.100                       | -0.6663 | 0.100                    | -0.6106 | 0.100                      | -0.5098 |
| 0.125                       | -0.5815 | 0.125                    | -0.5869 | 0.125                      | -0.5035 |
| 0.150                       | -0.6434 | 0.150                    | -0.5946 | 0.150                      | -0.4913 |
| 0.175                       | -0.6196 | 0.175                    | -0.6011 | 0.175                      | -0.5086 |
| 0.200                       | -0.6503 | 0.200                    | -0.6046 | 0.200                      | -0.4974 |
| 0.250                       | -0.6381 | 0.250                    | -0.6250 | 0.250                      | -0.5171 |
| 0.300                       | -0.6121 | 0.300                    | -0.6012 | 0.300                      | -0.5053 |
| 0.350                       | -0.5644 | 0.350                    | -0.5673 | 0.350                      | -0.5037 |
| 0.400                       | -0.5167 | 0.400                    | -0.5503 | 0.400                      | -0.4853 |
| 0.450                       | -0.4644 | 0.450                    | -0.5013 | 0.450                      | -0.4661 |
| 0.500                       | -0.4522 | 0.500                    | -0.4788 | 0.500                      | -0.4357 |
| 0.550                       | -0.4007 | 0.550                    | -0.4673 | 0.550                      | -0.4418 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5173 | 0.005 | 0.5103 | 0.005 | 0.4133 |
| 0.010 | 0.2748 | 0.010 | 0.2499 | 0.010 | 0.0887 |

Fight 34 Test point 9

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = -0.1  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 499.3 Rnpu = 4219000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9085  | 0.000                    | 0.9165  | 0.000                      | 0.8933  |
| 0.005                       | 0.2286  | 0.005                    | 0.3047  | 0.005                      | 0.5431  |
| 0.010                       | -0.0425 | 0.010                    | 0.0604  | 0.010                      | 0.2952  |
| 0.020                       | -0.2656 | 0.020                    | -0.1842 | 0.020                      | -0.0198 |
| 0.040                       | -0.4073 | 0.040                    | -0.3303 | 0.040                      | -0.1915 |
| 0.060                       | -0.4573 | 0.060                    | -0.3847 | 0.060                      | -0.2874 |
| 0.080                       | -0.4976 | 0.080                    | -0.4269 | 0.080                      | -0.3242 |
| 0.100                       | -0.5194 | 0.100                    | -0.4486 | 0.100                      | -0.3544 |
| 0.125                       | -0.4849 | 0.125                    | -0.4670 | 0.125                      | -0.3762 |
| 0.150                       | -0.5539 | 0.150                    | -0.4987 | 0.150                      | -0.4043 |
| 0.175                       | -0.5514 | 0.175                    | -0.5272 | 0.175                      | -0.4276 |
| 0.200                       | -0.5950 | 0.200                    | -0.5455 | 0.200                      | -0.4340 |
| 0.250                       | -0.6068 | 0.250                    | -0.5934 | 0.250                      | -0.4803 |
| 0.300                       | -0.6017 | 0.300                    | -0.5900 | 0.300                      | -0.4885 |
| 0.350                       | -0.5351 | 0.350                    | -0.5677 | 0.350                      | -0.4985 |
| 0.400                       | -0.5212 | 0.400                    | -0.5531 | 0.400                      | -0.4884 |
| 0.450                       | -0.4687 | 0.450                    | -0.5067 | 0.450                      | -0.4675 |
| 0.500                       | -0.4557 | 0.500                    | -0.4853 | 0.500                      | -0.4349 |
| 0.550                       | -0.4086 | 0.550                    | -0.4788 | 0.550                      | -0.4359 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2207  | 0.005 | 0.2087  | 0.005 | 0.0953  |
| 0.010 | -0.0690 | 0.010 | -0.1149 | 0.010 | -0.3006 |

Fight 34 Test point 10

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 10100. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 495.0 Rnpu = 4194000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9096  | 0.000                    | 0.9159  | 0.000                      | 0.9046  |
| 0.005                       | 0.1061  | 0.005                    | 0.1962  | 0.005                      | 0.4597  |
| 0.010                       | -0.1730 | 0.010                    | -0.0541 | 0.010                      | 0.1896  |
| 0.020                       | -0.3870 | 0.020                    | -0.2961 | 0.020                      | -0.1415 |
| 0.040                       | -0.5060 | 0.040                    | -0.4311 | 0.040                      | -0.3039 |
| 0.060                       | -0.5486 | 0.060                    | -0.4766 | 0.060                      | -0.3867 |
| 0.080                       | -0.5799 | 0.080                    | -0.5058 | 0.080                      | -0.4107 |
| 0.100                       | -0.5939 | 0.100                    | -0.5190 | 0.100                      | -0.4217 |
| 0.125                       | -0.5399 | 0.125                    | -0.5324 | 0.125                      | -0.4286 |
| 0.150                       | -0.6191 | 0.150                    | -0.5596 | 0.150                      | -0.4538 |
| 0.175                       | -0.6049 | 0.175                    | -0.5840 | 0.175                      | -0.4812 |
| 0.200                       | -0.6499 | 0.200                    | -0.6014 | 0.200                      | -0.4840 |
| 0.250                       | -0.6517 | 0.250                    | -0.6421 | 0.250                      | -0.5282 |
| 0.300                       | -0.6394 | 0.300                    | -0.6310 | 0.300                      | -0.5241 |
| 0.350                       | -0.5941 | 0.350                    | -0.6008 | 0.350                      | -0.5309 |
| 0.400                       | -0.5456 | 0.400                    | -0.5838 | 0.400                      | -0.5119 |
| 0.450                       | -0.4907 | 0.450                    | -0.5320 | 0.450                      | -0.4875 |
| 0.500                       | -0.4739 | 0.500                    | -0.5051 | 0.500                      | -0.4548 |
| 0.550                       | -0.4200 | 0.550                    | -0.4909 | 0.550                      | -0.4517 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3359 | 0.005 | 0.3202 | 0.005 | 0.2125  |
| 0.010 | 0.0588 | 0.010 | 0.0152 | 0.010 | -0.1630 |

m-1000



Fight 34 Test point 11

Sweep, deg = 24.9 Mach = 0.70 hp, ft = 10300. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 492.2 Rnpu = 4171000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8876  | 0.000                    | 0.8957  | 0.000                      | 0.8956  |
| 0.005                       | -0.1033 | 0.005                    | 0.0002  | 0.005                      | 0.3036  |
| 0.010                       | -0.3910 | 0.010                    | -0.2694 | 0.010                      | 0.0066  |
| 0.020                       | -0.5895 | 0.020                    | -0.5017 | 0.020                      | -0.3402 |
| 0.040                       | -0.6751 | 0.040                    | -0.6285 | 0.040                      | -0.4750 |
| 0.060                       | -0.7070 | 0.060                    | -0.6297 | 0.060                      | -0.5397 |
| 0.080                       | -0.7222 | 0.080                    | -0.6454 | 0.080                      | -0.5477 |
| 0.100                       | -0.7229 | 0.100                    | -0.6462 | 0.100                      | -0.5457 |
| 0.125                       | -0.6373 | 0.125                    | -0.6455 | 0.125                      | -0.5376 |
| 0.150                       | -0.7173 | 0.150                    | -0.6656 | 0.150                      | -0.5466 |
| 0.175                       | -0.6930 | 0.175                    | -0.6826 | 0.175                      | -0.5712 |
| 0.200                       | -0.7395 | 0.200                    | -0.6940 | 0.200                      | -0.5668 |
| 0.250                       | -0.7279 | 0.250                    | -0.7275 | 0.250                      | -0.5987 |
| 0.300                       | -0.7054 | 0.300                    | -0.7002 | 0.300                      | -0.5895 |
| 0.350                       | -0.6451 | 0.350                    | -0.6572 | 0.350                      | -0.5822 |
| 0.400                       | -0.5848 | 0.400                    | -0.6288 | 0.400                      | -0.5563 |
| 0.450                       | -0.5212 | 0.450                    | -0.5686 | 0.450                      | -0.5219 |
| 0.500                       | -0.4989 | 0.500                    | -0.5326 | 0.500                      | -0.4805 |
| 0.550                       | -0.4389 | 0.550                    | -0.5118 | 0.550                      | -0.4691 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4876 | 0.005 | 0.4726 | 0.005 | 0.3867 |
| 0.010 | 0.2320 | 0.010 | 0.1993 | 0.010 | 0.0477 |

Fight 34 Test point 12

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 10100. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 497.8 Rnpu = 4211000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9736  | 0.000                    | 0.9893  | 0.000                      | 0.9681  |
| 0.005                       | 0.2639  | 0.005                    | 0.3560  | 0.005                      | 0.5991  |
| 0.010                       | -0.0222 | 0.010                    | 0.0904  | 0.010                      | 0.3342  |
| 0.020                       | -0.2594 | 0.020                    | -0.1740 | 0.020                      | -0.0113 |
| 0.040                       | -0.4139 | 0.040                    | -0.3519 | 0.040                      | -0.2037 |
| 0.060                       | -0.4861 | 0.060                    | -0.4104 | 0.060                      | -0.3092 |
| 0.080                       | -0.5288 | 0.080                    | -0.4530 | 0.080                      | -0.3466 |
| 0.100                       | -0.5538 | 0.100                    | -0.4807 | 0.100                      | -0.3757 |
| 0.125                       | -0.5203 | 0.125                    | -0.5002 | 0.125                      | -0.3988 |
| 0.150                       | -0.6008 | 0.150                    | -0.5316 | 0.150                      | -0.4326 |
| 0.175                       | -0.6004 | 0.175                    | -0.5592 | 0.175                      | -0.4600 |
| 0.200                       | -0.6500 | 0.200                    | -0.5857 | 0.200                      | -0.4582 |
| 0.250                       | -0.6629 | 0.250                    | -0.6438 | 0.250                      | -0.5177 |
| 0.300                       | -0.6533 | 0.300                    | -0.6435 | 0.300                      | -0.5252 |
| 0.350                       | -0.6078 | 0.350                    | -0.6172 | 0.350                      | -0.5381 |
| 0.400                       | -0.5582 | 0.400                    | -0.6051 | 0.400                      | -0.5276 |
| 0.450                       | -0.5019 | 0.450                    | -0.5530 | 0.450                      | -0.5084 |
| 0.500                       | -0.4858 | 0.500                    | -0.5265 | 0.500                      | -0.4730 |
| 0.550                       | -0.4323 | 0.550                    | -0.5082 | 0.550                      | -0.4602 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2452  | 0.005 | 0.2343  | 0.005 | 0.1154  |
| 0.010 | -0.0614 | 0.010 | -0.1153 | 0.010 | -0.3223 |

Fight 34 Test point 13

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 502.9 Rnpu = 4240000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0248  | 0.000                    | 1.0488  | 0.000                      | 1.0222  |
| 0.005                       | 0.3022  | 0.005                    | 0.4170  | 0.005                      | 0.6674  |
| 0.010                       | 0.0128  | 0.010                    | 0.1465  | 0.010                      | 0.3993  |
| 0.020                       | -0.2348 | 0.020                    | -0.1318 | 0.020                      | 0.0440  |
| 0.040                       | -0.4097 | 0.040                    | -0.3204 | 0.040                      | -0.1609 |
| 0.060                       | -0.4826 | 0.060                    | -0.3897 | 0.060                      | -0.2743 |
| 0.080                       | -0.5336 | 0.080                    | -0.4394 | 0.080                      | -0.3192 |
| 0.100                       | -0.5644 | 0.100                    | -0.4660 | 0.100                      | -0.3495 |
| 0.125                       | -0.5278 | 0.125                    | -0.4902 | 0.125                      | -0.3769 |
| 0.150                       | -0.6145 | 0.150                    | -0.5294 | 0.150                      | -0.4069 |
| 0.175                       | -0.6125 | 0.175                    | -0.5667 | 0.175                      | -0.4353 |
| 0.200                       | -0.6722 | 0.200                    | -0.5973 | 0.200                      | -0.4506 |
| 0.250                       | -0.6837 | 0.250                    | -0.6505 | 0.250                      | -0.5104 |
| 0.300                       | -0.6768 | 0.300                    | -0.6540 | 0.300                      | -0.5248 |
| 0.350                       | -0.6229 | 0.350                    | -0.6305 | 0.350                      | -0.5445 |
| 0.400                       | -0.5656 | 0.400                    | -0.6145 | 0.400                      | -0.5321 |
| 0.450                       | -0.5036 | 0.450                    | -0.5604 | 0.450                      | -0.5097 |
| 0.500                       | -0.4824 | 0.500                    | -0.5333 | 0.500                      | -0.4708 |
| 0.550                       | -0.4287 | 0.550                    | -0.5138 | 0.550                      | -0.4555 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2751  | 0.005 | 0.2454  | 0.005 | 0.1170  |
| 0.010 | -0.0366 | 0.010 | -0.1194 | 0.010 | -0.3422 |

Fight 34 Test point 14

Sweep, deg = 20.0 Mach = 0.71 hp, ft = 10100. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 503.8 Rnpu = 4234000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9762  | 0.000                    | 0.9909  | 0.000                      | 0.9741  |
| 0.005                       | 0.1842  | 0.005                    | 0.2818  | 0.005                      | 0.5417  |
| 0.010                       | -0.1037 | 0.010                    | 0.0133  | 0.010                      | 0.2660  |
| 0.020                       | -0.3392 | 0.020                    | -0.2505 | 0.020                      | -0.0904 |
| 0.040                       | -0.4867 | 0.040                    | -0.4079 | 0.040                      | -0.2726 |
| 0.060                       | -0.5513 | 0.060                    | -0.4601 | 0.060                      | -0.3694 |
| 0.080                       | -0.5890 | 0.080                    | -0.5026 | 0.080                      | -0.4041 |
| 0.100                       | -0.6120 | 0.100                    | -0.5272 | 0.100                      | -0.4280 |
| 0.125                       | -0.5639 | 0.125                    | -0.5448 | 0.125                      | -0.4463 |
| 0.150                       | -0.6495 | 0.150                    | -0.5798 | 0.150                      | -0.4779 |
| 0.175                       | -0.6433 | 0.175                    | -0.6101 | 0.175                      | -0.5013 |
| 0.200                       | -0.6991 | 0.200                    | -0.6341 | 0.200                      | -0.4991 |
| 0.250                       | -0.7051 | 0.250                    | -0.6866 | 0.250                      | -0.5552 |
| 0.300                       | -0.6922 | 0.300                    | -0.6822 | 0.300                      | -0.5601 |
| 0.350                       | -0.6380 | 0.350                    | -0.6522 | 0.350                      | -0.5681 |
| 0.400                       | -0.5819 | 0.400                    | -0.6312 | 0.400                      | -0.5493 |
| 0.450                       | -0.5203 | 0.450                    | -0.5732 | 0.450                      | -0.5276 |
| 0.500                       | -0.5004 | 0.500                    | -0.5410 | 0.500                      | -0.4858 |
| 0.550                       | -0.4431 | 0.550                    | -0.5219 | 0.550                      | -0.4727 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3253 | 0.005 | 0.3124  | 0.005 | 0.2039  |
| 0.010 | 0.0283 | 0.010 | -0.0216 | 0.010 | -0.2130 |

Fight 34 Test point 15

Sweep, deg = 20.0 Mach = 0.71 hp, ft = 9800. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -4.9 QBAR, lb/ft<sup>2</sup> = 514.0 Rnpu = 4292000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0265  | 0.000                    | 1.0512  | 0.000                      | 1.0298  |
| 0.005                       | 0.2618  | 0.005                    | 0.3820  | 0.005                      | 0.6398  |
| 0.010                       | -0.0295 | 0.010                    | 0.1053  | 0.010                      | 0.3630  |
| 0.020                       | -0.2750 | 0.020                    | -0.1701 | 0.020                      | 0.0012  |
| 0.040                       | -0.4482 | 0.040                    | -0.3580 | 0.040                      | -0.1964 |
| 0.060                       | -0.5187 | 0.060                    | -0.4243 | 0.060                      | -0.3063 |
| 0.080                       | -0.5679 | 0.080                    | -0.4733 | 0.080                      | -0.3505 |
| 0.100                       | -0.5961 | 0.100                    | -0.4986 | 0.100                      | -0.3806 |
| 0.125                       | -0.5545 | 0.125                    | -0.5197 | 0.125                      | -0.4046 |
| 0.150                       | -0.6440 | 0.150                    | -0.5600 | 0.150                      | -0.4333 |
| 0.175                       | -0.6384 | 0.175                    | -0.5978 | 0.175                      | -0.4619 |
| 0.200                       | -0.7011 | 0.200                    | -0.6286 | 0.200                      | -0.4751 |
| 0.250                       | -0.7109 | 0.250                    | -0.6822 | 0.250                      | -0.5380 |
| 0.300                       | -0.6998 | 0.300                    | -0.6815 | 0.300                      | -0.5503 |
| 0.350                       | -0.6414 | 0.350                    | -0.6545 | 0.350                      | -0.5644 |
| 0.400                       | -0.5804 | 0.400                    | -0.6325 | 0.400                      | -0.5478 |
| 0.450                       | -0.5153 | 0.450                    | -0.5735 | 0.450                      | -0.5240 |
| 0.500                       | -0.4936 | 0.500                    | -0.5422 | 0.500                      | -0.4812 |
| 0.550                       | -0.4347 | 0.550                    | -0.5229 | 0.550                      | -0.4618 |

| Lower surface |        |       |         |       |         |
|---------------|--------|-------|---------|-------|---------|
| 0.005         | 0.3171 | 0.005 | 0.2910  | 0.005 | 0.1689  |
| 0.010         | 0.0118 | 0.010 | -0.0661 | 0.010 | -0.2791 |

Flight 34 Test point 16

Sweep, deg = 20.0 Mach = 0.71 hp, ft = 10000. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 506.3 Rnpu = 4261000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9657  | 0.000                    | 0.9834  | 0.000                      | 0.9762  |
| 0.005                       | -0.0194 | 0.005                    | 0.0989  | 0.005                      | 0.4007  |
| 0.010                       | -0.3191 | 0.010                    | -0.1875 | 0.010                      | 0.0901  |
| 0.020                       | -0.5436 | 0.020                    | -0.4501 | 0.020                      | -0.2806 |
| 0.040                       | -0.6790 | 0.040                    | -0.6101 | 0.040                      | -0.4471 |
| 0.060                       | -0.7262 | 0.060                    | -0.6470 | 0.060                      | -0.5305 |
| 0.080                       | -0.7531 | 0.080                    | -0.6730 | 0.080                      | -0.5499 |
| 0.100                       | -0.7654 | 0.100                    | -0.6843 | 0.100                      | -0.5637 |
| 0.125                       | -0.6795 | 0.125                    | -0.6815 | 0.125                      | -0.5709 |
| 0.150                       | -0.7762 | 0.150                    | -0.7067 | 0.150                      | -0.5948 |
| 0.175                       | -0.7483 | 0.175                    | -0.7278 | 0.175                      | -0.6045 |
| 0.200                       | -0.8211 | 0.200                    | -0.7497 | 0.200                      | -0.6027 |
| 0.250                       | -0.8071 | 0.250                    | -0.8066 | 0.250                      | -0.6495 |
| 0.300                       | -0.7766 | 0.300                    | -0.7827 | 0.300                      | -0.6465 |
| 0.350                       | -0.7038 | 0.350                    | -0.7277 | 0.350                      | -0.6401 |
| 0.400                       | -0.6342 | 0.400                    | -0.6903 | 0.400                      | -0.6093 |
| 0.450                       | -0.5588 | 0.450                    | -0.6209 | 0.450                      | -0.5753 |
| 0.500                       | -0.5309 | 0.500                    | -0.5789 | 0.500                      | -0.5260 |
| 0.550                       | -0.4657 | 0.550                    | -0.5534 | 0.550                      | -0.5000 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4896 | 0.005 | 0.4717 | 0.005 | 0.3761  |
| 0.010 | 0.2143 | 0.010 | 0.1669 | 0.010 | -0.0020 |

Fight 34 Test point 17

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 337.6 Rnpu = 3015000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9748  | 0.000                    | 0.9977  | 0.000                      | 0.9790  |
| 0.005                       | 0.1934  | 0.005                    | 0.2912  | 0.005                      | 0.5456  |
| 0.010                       | -0.0948 | 0.010                    | 0.0225  | 0.010                      | 0.2676  |
| 0.020                       | -0.3309 | 0.020                    | -0.2428 | 0.020                      | -0.0818 |
| 0.040                       | -0.4978 | 0.040                    | -0.4180 | 0.040                      | -0.2655 |
| 0.060                       | -0.5588 | 0.060                    | -0.4702 | 0.060                      | -0.3667 |
| 0.080                       | -0.5829 | 0.080                    | -0.5079 | 0.080                      | -0.4018 |
| 0.100                       | -0.6021 | 0.100                    | -0.5298 | 0.100                      | -0.4277 |
| 0.125                       | -0.5585 | 0.125                    | -0.5472 | 0.125                      | -0.4436 |
| 0.150                       | -0.6431 | 0.150                    | -0.5818 | 0.150                      | -0.4800 |
| 0.175                       | -0.6369 | 0.175                    | -0.6154 | 0.175                      | -0.5038 |
| 0.200                       | -0.6949 | 0.200                    | -0.6399 | 0.200                      | -0.5186 |
| 0.250                       | -0.6953 | 0.250                    | -0.6929 | 0.250                      | -0.5652 |
| 0.300                       | -0.6842 | 0.300                    | -0.6752 | 0.300                      | -0.5719 |
| 0.350                       | -0.6331 | 0.350                    | -0.6458 | 0.350                      | -0.5704 |
| 0.400                       | -0.5760 | 0.400                    | -0.6306 | 0.400                      | -0.5466 |
| 0.450                       | -0.5115 | 0.450                    | -0.5678 | 0.450                      | -0.5207 |
| 0.500                       | -0.4957 | 0.500                    | -0.5406 | 0.500                      | -0.4817 |
| 0.550                       | -0.4311 | 0.550                    | -0.5177 | 0.550                      | -0.4658 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3196 | 0.005 | 0.3086  | 0.005 | 0.2010  |
| 0.010 | 0.0248 | 0.010 | -0.0294 | 0.010 | -0.2168 |

Fight 34 Test point 18

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 338.1 Rnpu = 3014000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0150  | 0.000                    | 1.0493  | 0.000                      | 1.0398  |
| 0.005                       | 0.0781  | 0.005                    | 0.1990  | 0.005                      | 0.5014  |
| 0.010                       | -0.2221 | 0.010                    | -0.0850 | 0.010                      | 0.1953  |
| 0.020                       | -0.4574 | 0.020                    | -0.3574 | 0.020                      | -0.1754 |
| 0.040                       | -0.6327 | 0.040                    | -0.5304 | 0.040                      | -0.3568 |
| 0.060                       | -0.6686 | 0.060                    | -0.5759 | 0.060                      | -0.4514 |
| 0.080                       | -0.7055 | 0.080                    | -0.6095 | 0.080                      | -0.4811 |
| 0.100                       | -0.7195 | 0.100                    | -0.6214 | 0.100                      | -0.5006 |
| 0.125                       | -0.6547 | 0.125                    | -0.6293 | 0.125                      | -0.5111 |
| 0.150                       | -0.7543 | 0.150                    | -0.6628 | 0.150                      | -0.5380 |
| 0.175                       | -0.7312 | 0.175                    | -0.6979 | 0.175                      | -0.5634 |
| 0.200                       | -0.8001 | 0.200                    | -0.7240 | 0.200                      | -0.5746 |
| 0.250                       | -0.7853 | 0.250                    | -0.7742 | 0.250                      | -0.6196 |
| 0.300                       | -0.7587 | 0.300                    | -0.7516 | 0.300                      | -0.6222 |
| 0.350                       | -0.6835 | 0.350                    | -0.7028 | 0.350                      | -0.6229 |
| 0.400                       | -0.6129 | 0.400                    | -0.6729 | 0.400                      | -0.5935 |
| 0.450                       | -0.5381 | 0.450                    | -0.5992 | 0.450                      | -0.5481 |
| 0.500                       | -0.5145 | 0.500                    | -0.5704 | 0.500                      | -0.5019 |
| 0.550                       | -0.4388 | 0.550                    | -0.5362 | 0.550                      | -0.4758 |

Lower surface

|       |         |       |        |       |         |
|-------|---------|-------|--------|-------|---------|
| 0.005 | -0.4733 | 0.005 | 0.4646 | 0.005 | 0.3556  |
| 0.010 | 0.1903  | 0.010 | 0.1381 | 0.010 | -0.0545 |

m-1008



Fight 34 Test point 19

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 332.7 Rnpu = 2991000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9712  | 0.000                    | 0.9938  | 0.000                      | 0.9789  |
| 0.005                       | 0.1327  | 0.005                    | 0.2261  | 0.005                      | 0.4969  |
| 0.010                       | -0.1577 | 0.010                    | -0.0412 | 0.010                      | 0.2089  |
| 0.020                       | -0.3845 | 0.020                    | -0.3052 | 0.020                      | -0.1404 |
| 0.040                       | -0.5462 | 0.040                    | -0.4705 | 0.040                      | -0.3192 |
| 0.060                       | -0.6004 | 0.060                    | -0.5151 | 0.060                      | -0.4098 |
| 0.080                       | -0.6223 | 0.080                    | -0.5511 | 0.080                      | -0.4408 |
| 0.100                       | -0.6364 | 0.100                    | -0.5696 | 0.100                      | -0.4639 |
| 0.125                       | -0.5887 | 0.125                    | -0.5779 | 0.125                      | -0.4788 |
| 0.150                       | -0.6724 | 0.150                    | -0.6112 | 0.150                      | -0.5061 |
| 0.175                       | -0.6622 | 0.175                    | -0.6408 | 0.175                      | -0.5283 |
| 0.200                       | -0.7128 | 0.200                    | -0.6587 | 0.200                      | -0.5376 |
| 0.250                       | -0.7123 | 0.250                    | -0.7038 | 0.250                      | -0.5788 |
| 0.300                       | -0.6966 | 0.300                    | -0.6919 | 0.300                      | -0.5765 |
| 0.350                       | -0.6412 | 0.350                    | -0.6574 | 0.350                      | -0.5758 |
| 0.400                       | -0.5862 | 0.400                    | -0.6398 | 0.400                      | -0.5530 |
| 0.450                       | -0.5208 | 0.450                    | -0.5742 | 0.450                      | -0.5318 |
| 0.500                       | -0.5035 | 0.500                    | -0.5478 | 0.500                      | -0.4875 |
| 0.550                       | -0.4381 | 0.550                    | -0.5221 | 0.550                      | -0.4672 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.3633 | 0.005 | 0.3599 | 0.005 | 0.2558  |
| 0.010         | 0.0745 | 0.010 | 0.0332 | 0.010 | -0.1497 |

Fight 34 Test point 20

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -5.2 QBAR, lb/ft<sup>2</sup> = 334.8 R<sub>npu</sub> = 2994000.

Upper surface

| BL 200.8<br>Inboard station |                | BL 260<br>Middle station |                | BL 320<br>Outboard station |                |
|-----------------------------|----------------|--------------------------|----------------|----------------------------|----------------|
| x/c                         | C <sub>p</sub> | x/c                      | C <sub>p</sub> | x/c                        | C <sub>p</sub> |
| 0.000                       | 1.0250         | 0.000                    | 1.0548         | 0.000                      | 1.0335         |
| 0.005                       | 0.2288         | 0.005                    | 0.3479         | 0.005                      | 0.6165         |
| 0.010                       | -0.0651        | 0.010                    | 0.0741         | 0.010                      | 0.3331         |
| 0.020                       | -0.3065        | 0.020                    | -0.2018        | 0.020                      | -0.0245        |
| 0.040                       | -0.4894        | 0.040                    | -0.3822        | 0.040                      | -0.2224        |
| 0.060                       | -0.5374        | 0.060                    | -0.4404        | 0.060                      | -0.3292        |
| 0.080                       | -0.5884        | 0.080                    | -0.4873        | 0.080                      | -0.3664        |
| 0.100                       | -0.6062        | 0.100                    | -0.5076        | 0.100                      | -0.3924        |
| 0.125                       | -0.5640        | 0.125                    | -0.5272        | 0.125                      | -0.4181        |
| 0.150                       | -0.6594        | 0.150                    | -0.5639        | 0.150                      | -0.4533        |
| 0.175                       | -0.6501        | 0.175                    | -0.6071        | 0.175                      | -0.4829        |
| 0.200                       | -0.7095        | 0.200                    | -0.6315        | 0.200                      | -0.4983        |
| 0.250                       | -0.7104        | 0.250                    | -0.6942        | 0.250                      | -0.5477        |
| 0.300                       | -0.6944        | 0.300                    | -0.6788        | 0.300                      | -0.5556        |
| 0.350                       | -0.6382        | 0.350                    | -0.6472        | 0.350                      | -0.5674        |
| 0.400                       | -0.5768        | 0.400                    | -0.6347        | 0.400                      | -0.5532        |
| 0.450                       | -0.5145        | 0.450                    | -0.5660        | 0.450                      | -0.5175        |
| 0.500                       | -0.4900        | 0.500                    | -0.5429        | 0.500                      | -0.4734        |
| 0.550                       | -0.4273        | 0.550                    | -0.5167        | 0.550                      | -0.4507        |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3457 | 0.005 | 0.3206  | 0.005 | 0.1961  |
| 0.010 | 0.0418 | 0.010 | -0.0298 | 0.010 | -0.2450 |

Fight 34 Test point 21

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 19900. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 338.5 Rnpu = 3020000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9582  | 0.000                    | 0.9830  | 0.000                      | 0.9777  |
| 0.005                       | -0.0253 | 0.005                    | 0.0842  | 0.005                      | 0.3882  |
| 0.010                       | -0.3210 | 0.010                    | -0.1944 | 0.010                      | 0.0755  |
| 0.020                       | -0.5429 | 0.020                    | -0.4550 | 0.020                      | -0.2854 |
| 0.040                       | -0.6958 | 0.040                    | -0.6180 | 0.040                      | -0.4513 |
| 0.060                       | -0.7290 | 0.060                    | -0.6500 | 0.060                      | -0.5320 |
| 0.080                       | -0.7443 | 0.080                    | -0.6690 | 0.080                      | -0.5540 |
| 0.100                       | -0.7504 | 0.100                    | -0.6775 | 0.100                      | -0.5658 |
| 0.125                       | -0.6731 | 0.125                    | -0.6742 | 0.125                      | -0.5730 |
| 0.150                       | -0.7745 | 0.150                    | -0.7064 | 0.150                      | -0.5953 |
| 0.175                       | -0.7430 | 0.175                    | -0.7380 | 0.175                      | -0.6152 |
| 0.200                       | -0.8118 | 0.200                    | -0.7551 | 0.200                      | -0.6169 |
| 0.250                       | -0.7890 | 0.250                    | -0.8034 | 0.250                      | -0.6545 |
| 0.300                       | -0.7635 | 0.300                    | -0.7744 | 0.300                      | -0.6504 |
| 0.350                       | -0.7151 | 0.350                    | -0.7175 | 0.350                      | -0.6350 |
| 0.400                       | -0.6266 | 0.400                    | -0.6837 | 0.400                      | -0.5958 |
| 0.450                       | -0.5531 | 0.450                    | -0.6108 | 0.450                      | -0.5647 |
| 0.500                       | -0.5274 | 0.500                    | -0.5753 | 0.500                      | -0.5125 |
| 0.550                       | -0.4527 | 0.550                    | -0.5451 | 0.550                      | -0.4842 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4886 | 0.005 | 0.4824 | 0.005 | 0.3905 |
| 0.010 | 0.2168 | 0.010 | 0.1759 | 0.010 | 0.0155 |

Fight 34 Test point 22

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 335.0 Rnpu = 2999000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9070  | 0.000                    | 0.9183  | 0.000                      | 0.9065  |
| 0.005                       | 0.1028  | 0.005                    | 0.1793  | 0.005                      | 0.4422  |
| 0.010                       | -0.1740 | 0.010                    | -0.0679 | 0.010                      | 0.1667  |
| 0.020                       | -0.3807 | 0.020                    | -0.3099 | 0.020                      | -0.1568 |
| 0.040                       | -0.5168 | 0.040                    | -0.4401 | 0.040                      | -0.3180 |
| 0.060                       | -0.5628 | 0.060                    | -0.4855 | 0.060                      | -0.4027 |
| 0.080                       | -0.5824 | 0.080                    | -0.5159 | 0.080                      | -0.4247 |
| 0.100                       | -0.5917 | 0.100                    | -0.5259 | 0.100                      | -0.4415 |
| 0.125                       | -0.5451 | 0.125                    | -0.5390 | 0.125                      | -0.4552 |
| 0.150                       | -0.6210 | 0.150                    | -0.5670 | 0.150                      | -0.4729 |
| 0.175                       | -0.6120 | 0.175                    | -0.5919 | 0.175                      | -0.4992 |
| 0.200                       | -0.6561 | 0.200                    | -0.6056 | 0.200                      | -0.4953 |
| 0.250                       | -0.6575 | 0.250                    | -0.6541 | 0.250                      | -0.5354 |
| 0.300                       | -0.6437 | 0.300                    | -0.6365 | 0.300                      | -0.5308 |
| 0.350                       | -0.5962 | 0.350                    | -0.6014 | 0.350                      | -0.5335 |
| 0.400                       | -0.5463 | 0.400                    | -0.5904 | 0.400                      | -0.5164 |
| 0.450                       | -0.4883 | 0.450                    | -0.5307 | 0.450                      | -0.4928 |
| 0.500                       | -0.4752 | 0.500                    | -0.5092 | 0.500                      | -0.4511 |
| 0.550                       | -0.4159 | 0.550                    | -0.4868 | 0.550                      | -0.4444 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3358 | 0.005 | 0.3350 | 0.005 | 0.2388  |
| 0.010 | 0.0586 | 0.010 | 0.0291 | 0.010 | -0.1402 |

Fight 34 Test point 23

Sweep, deg = 25.4 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 335.1 Rnpu = 3000000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9024  | 0.000                    | 0.9156  | 0.000                      | 0.9015  |
| 0.005                       | 0.0934  | 0.005                    | 0.1744  | 0.005                      | 0.4368  |
| 0.010                       | -0.1799 | 0.010                    | -0.0750 | 0.010                      | 0.1597  |
| 0.020                       | -0.3926 | 0.020                    | -0.3121 | 0.020                      | -0.1639 |
| 0.040                       | -0.5211 | 0.040                    | -0.4482 | 0.040                      | -0.3254 |
| 0.060                       | -0.5645 | 0.060                    | -0.4901 | 0.060                      | -0.4014 |
| 0.080                       | -0.5825 | 0.080                    | -0.5229 | 0.080                      | -0.4288 |
| 0.100                       | -0.5940 | 0.100                    | -0.5294 | 0.100                      | -0.4462 |
| 0.125                       | -0.5457 | 0.125                    | -0.5403 | 0.125                      | -0.4601 |
| 0.150                       | -0.6234 | 0.150                    | -0.5694 | 0.150                      | -0.4758 |
| 0.175                       | -0.6114 | 0.175                    | -0.5923 | 0.175                      | -0.4999 |
| 0.200                       | -0.6546 | 0.200                    | -0.6109 | 0.200                      | -0.4978 |
| 0.250                       | -0.6570 | 0.250                    | -0.6560 | 0.250                      | -0.5368 |
| 0.300                       | -0.6450 | 0.300                    | -0.6392 | 0.300                      | -0.5341 |
| 0.350                       | -0.5998 | 0.350                    | -0.5998 | 0.350                      | -0.5367 |
| 0.400                       | -0.5457 | 0.400                    | -0.5882 | 0.400                      | -0.5157 |
| 0.450                       | -0.4893 | 0.450                    | -0.5332 | 0.450                      | -0.4927 |
| 0.500                       | -0.4753 | 0.500                    | -0.5090 | 0.500                      | -0.4542 |
| 0.550                       | -0.4149 | 0.550                    | -0.4871 | 0.550                      | -0.4431 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3402 | 0.005 | 0.3381 | 0.005 | 0.2425  |
| 0.010 | 0.0657 | 0.010 | 0.0336 | 0.010 | -0.1339 |

Fight 34 Test point 24

Sweep, deg = 25.1 Mach = 0.70 hp, ft = 19800. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 340.1 Rnpu = 3033000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8764  | 0.000                    | 0.8886  | 0.000                      | 0.8907  |
| 0.005                       | -0.1409 | 0.005                    | -0.0481 | 0.005                      | 0.2601  |
| 0.010                       | -0.4305 | 0.010                    | -0.3130 | 0.010                      | -0.0464 |
| 0.020                       | -0.6236 | 0.020                    | -0.5458 | 0.020                      | -0.3875 |
| 0.040                       | -0.7283 | 0.040                    | -0.6735 | 0.040                      | -0.5217 |
| 0.060                       | -0.7512 | 0.060                    | -0.6770 | 0.060                      | -0.5782 |
| 0.080                       | -0.7450 | 0.080                    | -0.6905 | 0.080                      | -0.5806 |
| 0.100                       | -0.7385 | 0.100                    | -0.6877 | 0.100                      | -0.5852 |
| 0.125                       | -0.6540 | 0.125                    | -0.6728 | 0.125                      | -0.5831 |
| 0.150                       | -0.7439 | 0.150                    | -0.6941 | 0.150                      | -0.5952 |
| 0.175                       | -0.7138 | 0.175                    | -0.7124 | 0.175                      | -0.6085 |
| 0.200                       | -0.7610 | 0.200                    | -0.7183 | 0.200                      | -0.5976 |
| 0.250                       | -0.7443 | 0.250                    | -0.7559 | 0.250                      | -0.6228 |
| 0.300                       | -0.7193 | 0.300                    | -0.7196 | 0.300                      | -0.6066 |
| 0.350                       | -0.6551 | 0.350                    | -0.6663 | 0.350                      | -0.5943 |
| 0.400                       | -0.5912 | 0.400                    | -0.6453 | 0.400                      | -0.5651 |
| 0.450                       | -0.5249 | 0.450                    | -0.5727 | 0.450                      | -0.5321 |
| 0.500                       | -0.5039 | 0.500                    | -0.5417 | 0.500                      | -0.4834 |
| 0.550                       | -0.4349 | 0.550                    | -0.5117 | 0.550                      | -0.4644 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.5109 | 0.005 | 0.5052 | 0.005 | 0.4292 |
| 0.010         | 0.2624 | 0.010 | 0.2336 | 0.010 | 0.1009 |

Fight 34 Test point 25

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 335.9 Rnpu = 3001000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8217  | 0.000                    | 0.8195  | 0.000                      | 0.8141  |
| 0.005                       | -0.0283 | 0.005                    | 0.0344  | 0.005                      | 0.3002  |
| 0.010                       | -0.2898 | 0.010                    | -0.1882 | 0.010                      | 0.0332  |
| 0.020                       | -0.4703 | 0.020                    | -0.4129 | 0.020                      | -0.2585 |
| 0.040                       | -0.5574 | 0.040                    | -0.5106 | 0.040                      | -0.3839 |
| 0.060                       | -0.5858 | 0.060                    | -0.5331 | 0.060                      | -0.4446 |
| 0.080                       | -0.5982 | 0.080                    | -0.5505 | 0.080                      | -0.4593 |
| 0.100                       | -0.5979 | 0.100                    | -0.5470 | 0.100                      | -0.4694 |
| 0.125                       | -0.5387 | 0.125                    | -0.5485 | 0.125                      | -0.4711 |
| 0.150                       | -0.6067 | 0.150                    | -0.5701 | 0.150                      | -0.4819 |
| 0.175                       | -0.5914 | 0.175                    | -0.5833 | 0.175                      | -0.5016 |
| 0.200                       | -0.6275 | 0.200                    | -0.5950 | 0.200                      | -0.4969 |
| 0.250                       | -0.6211 | 0.250                    | -0.6243 | 0.250                      | -0.5233 |
| 0.300                       | -0.6053 | 0.300                    | -0.6005 | 0.300                      | -0.5127 |
| 0.350                       | -0.5610 | 0.350                    | -0.5628 | 0.350                      | -0.5089 |
| 0.400                       | -0.5175 | 0.400                    | -0.5509 | 0.400                      | -0.4890 |
| 0.450                       | -0.4610 | 0.450                    | -0.4957 | 0.450                      | -0.4624 |
| 0.500                       | -0.4480 | 0.500                    | -0.4772 | 0.500                      | -0.4260 |
| 0.550                       | -0.3945 | 0.550                    | -0.4591 | 0.550                      | -0.4209 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.3883 | 0.005 | 0.3828 | 0.005 | 0.3027  |
| 0.010         | 0.1439 | 0.010 | 0.1257 | 0.010 | -0.0111 |

Fight 34 Test point 26

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 19900. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 335.8 Rnpu = 3004000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8246  | 0.000                    | 0.8263  | 0.000                      | 0.8166  |
| 0.005                       | 0.0404  | 0.005                    | 0.0941  | 0.005                      | 0.3499  |
| 0.010                       | -0.2164 | 0.010                    | -0.1221 | 0.010                      | 0.0951  |
| 0.020                       | -0.4029 | 0.020                    | -0.3467 | 0.020                      | -0.1962 |
| 0.040                       | -0.5007 | 0.040                    | -0.4526 | 0.040                      | -0.3306 |
| 0.060                       | -0.5267 | 0.060                    | -0.4821 | 0.060                      | -0.3966 |
| 0.080                       | -0.5508 | 0.080                    | -0.5040 | 0.080                      | -0.4160 |
| 0.100                       | -0.5560 | 0.100                    | -0.5073 | 0.100                      | -0.4291 |
| 0.125                       | -0.5092 | 0.125                    | -0.5118 | 0.125                      | -0.4354 |
| 0.150                       | -0.5726 | 0.150                    | -0.5314 | 0.150                      | -0.4475 |
| 0.175                       | -0.5618 | 0.175                    | -0.5523 | 0.175                      | -0.4691 |
| 0.200                       | -0.5960 | 0.200                    | -0.5577 | 0.200                      | -0.4660 |
| 0.250                       | -0.5959 | 0.250                    | -0.5931 | 0.250                      | -0.4951 |
| 0.300                       | -0.5841 | 0.300                    | -0.5767 | 0.300                      | -0.4842 |
| 0.350                       | -0.5428 | 0.350                    | -0.5454 | 0.350                      | -0.4914 |
| 0.400                       | -0.5023 | 0.400                    | -0.5315 | 0.400                      | -0.4740 |
| 0.450                       | -0.4489 | 0.450                    | -0.4794 | 0.450                      | -0.4511 |
| 0.500                       | -0.4405 | 0.500                    | -0.4628 | 0.500                      | -0.4159 |
| 0.550                       | -0.3863 | 0.550                    | -0.4475 | 0.550                      | -0.4139 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.3258 | 0.005 | 0.3332 | 0.005 | 0.2476  |
| 0.010         | 0.0744 | 0.010 | 0.0676 | 0.010 | -0.0804 |



Fight 34 Test point 27

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 19900. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 339.2 Rnpu = 3026000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7963  | 0.000                    | 0.7924  | 0.000                      | 0.7969  |
| 0.005                       | -0.1924 | 0.005                    | -0.1111 | 0.005                      | 0.1776  |
| 0.010                       | -0.4635 | 0.010                    | -0.3427 | 0.010                      | -0.1063 |
| 0.020                       | -0.6248 | 0.020                    | -0.5591 | 0.020                      | -0.4037 |
| 0.040                       | -0.6903 | 0.040                    | -0.6422 | 0.040                      | -0.5068 |
| 0.060                       | -0.6850 | 0.060                    | -0.6466 | 0.060                      | -0.5550 |
| 0.080                       | -0.6908 | 0.080                    | -0.6490 | 0.080                      | -0.5539 |
| 0.100                       | -0.6830 | 0.100                    | -0.6339 | 0.100                      | -0.5568 |
| 0.125                       | -0.6045 | 0.125                    | -0.6221 | 0.125                      | -0.5476 |
| 0.150                       | -0.6787 | 0.150                    | -0.6377 | 0.150                      | -0.5478 |
| 0.175                       | -0.6501 | 0.175                    | -0.6527 | 0.175                      | -0.5624 |
| 0.200                       | -0.6876 | 0.200                    | -0.6554 | 0.200                      | -0.5503 |
| 0.250                       | -0.6692 | 0.250                    | -0.6805 | 0.250                      | -0.5739 |
| 0.300                       | -0.6488 | 0.300                    | -0.6486 | 0.300                      | -0.5546 |
| 0.350                       | -0.5954 | 0.350                    | -0.5987 | 0.350                      | -0.5438 |
| 0.400                       | -0.5457 | 0.400                    | -0.5787 | 0.400                      | -0.5153 |
| 0.450                       | -0.4836 | 0.450                    | -0.5185 | 0.450                      | -0.4812 |
| 0.500                       | -0.4666 | 0.500                    | -0.4951 | 0.500                      | -0.4381 |
| 0.550                       | -0.4073 | 0.550                    | -0.4753 | 0.550                      | -0.4335 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.4814 | 0.005 | 0.4834 | 0.005 | 0.4142 |
| 0.010         | 0.2537 | 0.010 | 0.2426 | 0.010 | 0.1252 |

Flight 34 Test point 28

Sweep, deg = 34.9 Mach = 0.71 hp, ft = 20000. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 337.7 Rnpu = 3014000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7389  | 0.000                    | 0.7217  | 0.000                      | 0.7201  |
| 0.005                       | -0.0939 | 0.005                    | -0.0557 | 0.005                      | 0.2041  |
| 0.010                       | -0.3398 | 0.010                    | -0.2516 | 0.010                      | -0.0438 |
| 0.020                       | -0.4931 | 0.020                    | -0.4463 | 0.020                      | -0.3054 |
| 0.040                       | -0.5454 | 0.040                    | -0.5136 | 0.040                      | -0.4064 |
| 0.060                       | -0.5587 | 0.060                    | -0.5179 | 0.060                      | -0.4432 |
| 0.080                       | -0.5662 | 0.080                    | -0.5328 | 0.080                      | -0.4534 |
| 0.100                       | -0.5616 | 0.100                    | -0.5228 | 0.100                      | -0.4567 |
| 0.125                       | -0.5021 | 0.125                    | -0.5187 | 0.125                      | -0.4554 |
| 0.150                       | -0.5593 | 0.150                    | -0.5345 | 0.150                      | -0.4603 |
| 0.175                       | -0.5436 | 0.175                    | -0.5419 | 0.175                      | -0.4703 |
| 0.200                       | -0.5752 | 0.200                    | -0.5472 | 0.200                      | -0.4635 |
| 0.250                       | -0.5673 | 0.250                    | -0.5696 | 0.250                      | -0.4837 |
| 0.300                       | -0.5495 | 0.300                    | -0.5455 | 0.300                      | -0.4677 |
| 0.350                       | -0.5140 | 0.350                    | -0.5112 | 0.350                      | -0.4667 |
| 0.400                       | -0.4702 | 0.400                    | -0.5007 | 0.400                      | -0.4470 |
| 0.450                       | -0.4216 | 0.450                    | -0.4484 | 0.450                      | -0.4211 |
| 0.500                       | -0.4121 | 0.500                    | -0.4331 | 0.500                      | -0.3929 |
| 0.550                       | -0.3647 | 0.550                    | -0.4222 | 0.550                      | -0.3947 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3878 | 0.005 | 0.3811 | 0.005 | 0.3108 |
| 0.010 | 0.1689 | 0.010 | 0.1562 | 0.010 | 0.0436 |

Flight 34 Test point 29

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 20100. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 334.5 Rrho = 2995000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7490  | 0.000                    | 0.7406  | 0.000                      | 0.7276  |
| 0.005                       | 0.0469  | 0.005                    | 0.0919  | 0.005                      | 0.3205  |
| 0.010                       | -0.1900 | 0.010                    | -0.1010 | 0.010                      | 0.0951  |
| 0.020                       | -0.3564 | 0.020                    | -0.3001 | 0.020                      | -0.1645 |
| 0.040                       | -0.4305 | 0.040                    | -0.3931 | 0.040                      | -0.2871 |
| 0.060                       | -0.4619 | 0.060                    | -0.4148 | 0.060                      | -0.3434 |
| 0.080                       | -0.4780 | 0.080                    | -0.4327 | 0.080                      | -0.3617 |
| 0.100                       | -0.4810 | 0.100                    | -0.4384 | 0.100                      | -0.3741 |
| 0.125                       | -0.4407 | 0.125                    | -0.4471 | 0.125                      | -0.3815 |
| 0.150                       | -0.4954 | 0.150                    | -0.4646 | 0.150                      | -0.3938 |
| 0.175                       | -0.4876 | 0.175                    | -0.4762 | 0.175                      | -0.4103 |
| 0.200                       | -0.5220 | 0.200                    | -0.4880 | 0.200                      | -0.4061 |
| 0.250                       | -0.5191 | 0.250                    | -0.5156 | 0.250                      | -0.4360 |
| 0.300                       | -0.5086 | 0.300                    | -0.5006 | 0.300                      | -0.4248 |
| 0.350                       | -0.4755 | 0.350                    | -0.4738 | 0.350                      | -0.4303 |
| 0.400                       | -0.4402 | 0.400                    | -0.4653 | 0.400                      | -0.4148 |
| 0.450                       | -0.3970 | 0.450                    | -0.4205 | 0.450                      | -0.3999 |
| 0.500                       | -0.3934 | 0.500                    | -0.4081 | 0.500                      | -0.3714 |
| 0.550                       | -0.3473 | 0.550                    | -0.4026 | 0.550                      | -0.3791 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.2728 | 0.005 | 0.2702 | 0.005 | 0.1852  |
| 0.010 | 0.0384 | 0.010 | 0.0257 | 0.010 | -0.1087 |

Flight 34 Test point 30

Sweep, deg = 34.9 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 382.9 Rnpu = 3225000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7608  | 0.000                    | 0.7436  | 0.000                      | 0.7327  |
| 0.005                       | 0.0366  | 0.005                    | 0.0664  | 0.005                      | 0.2921  |
| 0.010                       | -0.2147 | 0.010                    | -0.1339 | 0.010                      | 0.0576  |
| 0.020                       | -0.3925 | 0.020                    | -0.3456 | 0.020                      | -0.2116 |
| 0.040                       | -0.4756 | 0.040                    | -0.4432 | 0.040                      | -0.3358 |
| 0.060                       | -0.5094 | 0.060                    | -0.4728 | 0.060                      | -0.4001 |
| 0.080                       | -0.5286 | 0.080                    | -0.5001 | 0.080                      | -0.4199 |
| 0.100                       | -0.5361 | 0.100                    | -0.4969 | 0.100                      | -0.4322 |
| 0.125                       | -0.4887 | 0.125                    | -0.4999 | 0.125                      | -0.4408 |
| 0.150                       | -0.5509 | 0.150                    | -0.5240 | 0.150                      | -0.4507 |
| 0.175                       | -0.5430 | 0.175                    | -0.5387 | 0.175                      | -0.4692 |
| 0.200                       | -0.5810 | 0.200                    | -0.5523 | 0.200                      | -0.4651 |
| 0.250                       | -0.5821 | 0.250                    | -0.5905 | 0.250                      | -0.4943 |
| 0.300                       | -0.5704 | 0.300                    | -0.5676 | 0.300                      | -0.4853 |
| 0.350                       | -0.5365 | 0.350                    | -0.5325 | 0.350                      | -0.4838 |
| 0.400                       | -0.4912 | 0.400                    | -0.5182 | 0.400                      | -0.4609 |
| 0.450                       | -0.4401 | 0.450                    | -0.4632 | 0.450                      | -0.4343 |
| 0.500                       | -0.4283 | 0.500                    | -0.4413 | 0.500                      | -0.3968 |
| 0.550                       | -0.3770 | 0.550                    | -0.4309 | 0.550                      | -0.3934 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3180 | 0.005 | 0.3069 | 0.005 | 0.2371  |
| 0.010 | 0.0938 | 0.010 | 0.0656 | 0.010 | -0.0480 |

Fight 34 Test point 31

Sweep, deg = 34.9 Mach = 0.75 hp, ft = 20100. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 384.2 Rnpu = 3235000.

Upper surface

| BL 200.8<br>Inboard station |         | Bl 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7587  | 0.000                    | 0.7459  | 0.000                      | 0.7379  |
| 0.005                       | 0.0749  | 0.005                    | 0.1090  | 0.005                      | 0.3284  |
| 0.010                       | -0.1723 | 0.010                    | -0.0869 | 0.010                      | 0.1023  |
| 0.020                       | -0.3557 | 0.020                    | -0.3020 | 0.020                      | -0.1660 |
| 0.040                       | -0.4417 | 0.040                    | -0.4105 | 0.040                      | -0.3019 |
| 0.060                       | -0.4780 | 0.060                    | -0.4404 | 0.060                      | -0.3686 |
| 0.080                       | -0.4989 | 0.080                    | -0.4679 | 0.080                      | -0.3904 |
| 0.100                       | -0.5095 | 0.100                    | -0.4689 | 0.100                      | -0.4077 |
| 0.125                       | -0.4713 | 0.125                    | -0.4777 | 0.125                      | -0.4164 |
| 0.150                       | -0.5332 | 0.150                    | -0.5030 | 0.150                      | -0.4271 |
| 0.175                       | -0.5282 | 0.175                    | -0.5221 | 0.175                      | -0.4523 |
| 0.200                       | -0.5666 | 0.200                    | -0.5351 | 0.200                      | -0.4509 |
| 0.250                       | -0.5649 | 0.250                    | -0.5713 | 0.250                      | -0.4799 |
| 0.300                       | -0.5577 | 0.300                    | -0.5543 | 0.300                      | -0.4737 |
| 0.350                       | -0.5267 | 0.350                    | -0.5197 | 0.350                      | -0.4718 |
| 0.400                       | -0.4881 | 0.400                    | -0.5110 | 0.400                      | -0.4510 |
| 0.450                       | -0.4353 | 0.450                    | -0.4593 | 0.450                      | -0.4257 |
| 0.500                       | -0.4216 | 0.500                    | -0.4381 | 0.500                      | -0.3941 |
| 0.550                       | -0.3732 | 0.550                    | -0.4272 | 0.550                      | -0.3933 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.2770 | 0.005 | 0.2771 | 0.005 | 0.2033  |
| 0.010 | 0.0359 | 0.010 | 0.0266 | 0.010 | -0.0925 |

Fight 34 Test point 32

Sweep, deg = 34.9 Mach = 0.76 hp, ft = 20100. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 385.9 R<sub>npu</sub> = 3242000.

| Upper surface               |                |                          |                |                            |                |
|-----------------------------|----------------|--------------------------|----------------|----------------------------|----------------|
| BL 200.8<br>Inboard station |                | BL 260<br>Middle station |                | BL 320<br>Outboard station |                |
| x/c                         | C <sub>p</sub> | x/c                      | C <sub>p</sub> | x/c                        | C <sub>p</sub> |
| 0.000                       | 0.7438         | 0.000                    | 0.7219         | 0.000                      | 0.7220         |
| 0.005                       | -0.1214        | 0.005                    | -0.0959        | 0.005                      | 0.1597         |
| 0.010                       | -0.3881        | 0.010                    | -0.3018        | 0.010                      | -0.0973        |
| 0.020                       | -0.5562        | 0.020                    | -0.5108        | 0.020                      | -0.3807        |
| 0.040                       | -0.6103        | 0.040                    | -0.5962        | 0.040                      | -0.4869        |
| 0.060                       | -0.6382        | 0.060                    | -0.6006        | 0.060                      | -0.5314        |
| 0.080                       | -0.6449        | 0.080                    | -0.6222        | 0.080                      | -0.5357        |
| 0.100                       | -0.6359        | 0.100                    | -0.6285        | 0.100                      | -0.5425        |
| 0.125                       | -0.5718        | 0.125                    | -0.5947        | 0.125                      | -0.5426        |
| 0.150                       | -0.6440        | 0.150                    | -0.6161        | 0.150                      | -0.5396        |
| 0.175                       | -0.6295        | 0.175                    | -0.6330        | 0.175                      | -0.5564        |
| 0.200                       | -0.6402        | 0.200                    | -0.6319        | 0.200                      | -0.5451        |
| 0.250                       | -0.6504        | 0.250                    | -0.6618        | 0.250                      | -0.5616        |
| 0.300                       | -0.6307        | 0.300                    | -0.6393        | 0.300                      | -0.5426        |
| 0.350                       | -0.5916        | 0.350                    | -0.5843        | 0.350                      | -0.5319        |
| 0.400                       | -0.5312        | 0.400                    | -0.5598        | 0.400                      | -0.4984        |
| 0.450                       | -0.4707        | 0.450                    | -0.4970        | 0.450                      | -0.4628        |
| 0.500                       | -0.4541        | 0.500                    | -0.4653        | 0.500                      | -0.4193        |
| 0.550                       | -0.3951        | 0.550                    | -0.4477        | 0.550                      | -0.4060        |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.4331 | 0.005 | 0.4243 | 0.005 | 0.3731 |
| 0.010         | 0.2150 | 0.010 | 0.2053 | 0.010 | 0.1158 |

Fight 34 Test point 33

Sweep, deg = 30.2 Mach = 0.76 hp, ft = 20000. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 387.4 Rnpu = 3253000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8356  | 0.000                    | 0.8335  | 0.000                      | 0.8214  |
| 0.005                       | 0.0967  | 0.005                    | 0.1503  | 0.005                      | 0.3830  |
| 0.010                       | -0.1660 | 0.010                    | -0.0717 | 0.010                      | 0.1321  |
| 0.020                       | -0.3723 | 0.020                    | -0.3132 | 0.020                      | -0.1706 |
| 0.040                       | -0.4817 | 0.040                    | -0.4388 | 0.040                      | -0.3218 |
| 0.060                       | -0.5336 | 0.060                    | -0.4817 | 0.060                      | -0.4063 |
| 0.080                       | -0.5644 | 0.080                    | -0.5226 | 0.080                      | -0.4313 |
| 0.100                       | -0.5783 | 0.100                    | -0.5336 | 0.100                      | -0.4557 |
| 0.125                       | -0.5336 | 0.125                    | -0.5359 | 0.125                      | -0.4636 |
| 0.150                       | -0.6082 | 0.150                    | -0.5705 | 0.150                      | -0.4881 |
| 0.175                       | -0.6030 | 0.175                    | -0.5997 | 0.175                      | -0.5188 |
| 0.200                       | -0.6601 | 0.200                    | -0.6159 | 0.200                      | -0.5168 |
| 0.250                       | -0.6560 | 0.250                    | -0.6818 | 0.250                      | -0.5540 |
| 0.300                       | -0.6519 | 0.300                    | -0.6585 | 0.300                      | -0.5492 |
| 0.350                       | -0.6106 | 0.350                    | -0.6112 | 0.350                      | -0.5464 |
| 0.400                       | -0.5529 | 0.400                    | -0.5880 | 0.400                      | -0.5160 |
| 0.450                       | -0.4883 | 0.450                    | -0.5272 | 0.450                      | -0.4853 |
| 0.500                       | -0.4737 | 0.500                    | -0.4961 | 0.500                      | -0.4397 |
| 0.550                       | -0.4146 | 0.550                    | -0.4733 | 0.550                      | -0.4241 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3193 | 0.005 | 0.3189 | 0.005 | 0.2403  |
| 0.010 | 0.0614 | 0.010 | 0.0436 | 0.010 | -0.0911 |

Fight 34 Test point 34

Sweep, deg = 30.2 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 384.1 Rnpu = 3235000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8311  | 0.000                    | 0.8232  | 0.000                      | 0.8147  |
| 0.005                       | -0.0342 | 0.005                    | 0.0127  | 0.005                      | 0.2697  |
| 0.010                       | -0.3084 | 0.010                    | -0.2143 | 0.010                      | -0.0011 |
| 0.020                       | -0.5016 | 0.020                    | -0.4482 | 0.020                      | -0.3142 |
| 0.040                       | -0.6006 | 0.040                    | -0.5664 | 0.040                      | -0.4478 |
| 0.060                       | -0.6603 | 0.060                    | -0.5943 | 0.060                      | -0.5147 |
| 0.080                       | -0.6643 | 0.080                    | -0.6226 | 0.080                      | -0.5269 |
| 0.100                       | -0.6672 | 0.100                    | -0.6561 | 0.100                      | -0.5429 |
| 0.125                       | -0.6005 | 0.125                    | -0.6154 | 0.125                      | -0.5565 |
| 0.150                       | -0.6795 | 0.150                    | -0.6472 | 0.150                      | -0.5641 |
| 0.175                       | -0.6708 | 0.175                    | -0.6736 | 0.175                      | -0.5893 |
| 0.200                       | -0.7192 | 0.200                    | -0.6976 | 0.200                      | -0.5782 |
| 0.250                       | -0.6935 | 0.250                    | -0.7352 | 0.250                      | -0.6080 |
| 0.300                       | -0.6974 | 0.300                    | -0.7116 | 0.300                      | -0.5943 |
| 0.350                       | -0.6573 | 0.350                    | -0.6476 | 0.350                      | -0.5829 |
| 0.400                       | -0.5762 | 0.400                    | -0.6186 | 0.400                      | -0.5459 |
| 0.450                       | -0.5042 | 0.450                    | -0.5464 | 0.450                      | -0.5051 |
| 0.500                       | -0.4847 | 0.500                    | -0.5088 | 0.500                      | -0.4487 |
| 0.550                       | -0.4235 | 0.550                    | -0.4818 | 0.550                      | -0.4293 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4276 | 0.005 | 0.4267 | 0.005 | 0.3612 |
| 0.010 | 0.1853 | 0.010 | 0.1732 | 0.010 | 0.0618 |



Fight 34 Test point 35

Sweep, deg = 25.2 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 381.7 Rnpu = 3226000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9217  | 0.000                    | 0.9313  | 0.000                      | 0.9129  |
| 0.005                       | 0.1991  | 0.005                    | 0.2662  | 0.005                      | 0.4987  |
| 0.010                       | -0.0751 | 0.010                    | 0.0207  | 0.010                      | 0.2336  |
| 0.020                       | -0.3014 | 0.020                    | -0.2320 | 0.020                      | -0.0962 |
| 0.040                       | -0.4589 | 0.040                    | -0.3904 | 0.040                      | -0.2734 |
| 0.060                       | -0.5195 | 0.060                    | -0.4493 | 0.060                      | -0.3730 |
| 0.080                       | -0.5600 | 0.080                    | -0.4954 | 0.080                      | -0.4096 |
| 0.100                       | -0.5867 | 0.100                    | -0.5172 | 0.100                      | -0.4365 |
| 0.125                       | -0.5481 | 0.125                    | -0.5342 | 0.125                      | -0.4615 |
| 0.150                       | -0.6327 | 0.150                    | -0.5782 | 0.150                      | -0.4825 |
| 0.175                       | -0.6340 | 0.175                    | -0.6192 | 0.175                      | -0.5239 |
| 0.200                       | -0.7039 | 0.200                    | -0.6465 | 0.200                      | -0.5224 |
| 0.250                       | -0.6929 | 0.250                    | -0.7219 | 0.250                      | -0.5820 |
| 0.300                       | -0.7176 | 0.300                    | -0.7339 | 0.300                      | -0.5895 |
| 0.350                       | -0.6760 | 0.350                    | -0.6725 | 0.350                      | -0.5907 |
| 0.400                       | -0.5952 | 0.400                    | -0.6431 | 0.400                      | -0.5647 |
| 0.450                       | -0.5211 | 0.450                    | -0.5712 | 0.450                      | -0.5276 |
| 0.500                       | -0.5005 | 0.500                    | -0.5344 | 0.500                      | -0.4743 |
| 0.550                       | -0.4351 | 0.550                    | -0.5049 | 0.550                      | -0.4489 |

| Lower surface |        |       |         |       |         |
|---------------|--------|-------|---------|-------|---------|
| 0.005         | 0.2946 | 0.005 | 0.2938  | 0.005 | 0.2071  |
| 0.010         | 0.0057 | 0.010 | -0.0238 | 0.010 | -0.1839 |

Figure 34 Test point 30

Sweep, deg = 25.0 Mach = 0.75 hp, ft = 20100. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 382.7 Rnpu = 3221000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9203  | 0.000                    | 0.9306  | 0.000                      | 0.9159  |
| 0.005                       | 0.1172  | 0.005                    | 0.1842  | 0.005                      | 0.4333  |
| 0.010                       | -0.1642 | 0.010                    | -0.0664 | 0.010                      | 0.1536  |
| 0.020                       | -0.3875 | 0.020                    | -0.3169 | 0.020                      | -0.1851 |
| 0.040                       | -0.5364 | 0.040                    | -0.4690 | 0.040                      | -0.3571 |
| 0.060                       | -0.6051 | 0.060                    | -0.5204 | 0.060                      | -0.4489 |
| 0.080                       | -0.6206 | 0.080                    | -0.5640 | 0.080                      | -0.4756 |
| 0.100                       | -0.6558 | 0.100                    | -0.5964 | 0.100                      | -0.5014 |
| 0.125                       | -0.5908 | 0.125                    | -0.5861 | 0.125                      | -0.5263 |
| 0.150                       | -0.6835 | 0.150                    | -0.6290 | 0.150                      | -0.5470 |
| 0.175                       | -0.6694 | 0.175                    | -0.6745 | 0.175                      | -0.5811 |
| 0.200                       | -0.7638 | 0.200                    | -0.7057 | 0.200                      | -0.5809 |
| 0.250                       | -0.7956 | 0.250                    | -0.7848 | 0.250                      | -0.6243 |
| 0.300                       | -0.7272 | 0.300                    | -0.7995 | 0.300                      | -0.6419 |
| 0.350                       | -0.7189 | 0.350                    | -0.7241 | 0.350                      | -0.6286 |
| 0.400                       | -0.6087 | 0.400                    | -0.6662 | 0.400                      | -0.5900 |
| 0.450                       | -0.1370 | 0.450                    | -0.5930 | 0.450                      | -0.5476 |
| 0.500                       | -0.5124 | 0.500                    | -0.5502 | 0.500                      | -0.4884 |
| 0.550                       | -0.4457 | 0.550                    | -0.5137 | 0.550                      | -0.4578 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.3731 | 0.005 | 0.3699 | 0.005 | 0.2958  |
| 0.010         | 0.0977 | 0.010 | 0.0705 | 0.010 | -0.0713 |

Fight 34 Test point 37

Sweep, deg = 24.9 Mach = 0.75 hp, ft = 20300. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 382.0 Rnpu = 3216000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9094  | 0.000                    | 0.9155  | 0.000                      | 0.9063  |
| 0.005                       | -0.0186 | 0.005                    | 0.0543  | 0.005                      | 0.3227  |
| 0.010                       | -0.3040 | 0.010                    | -0.2062 | 0.010                      | 0.0243  |
| 0.020                       | -0.5148 | 0.020                    | -0.4559 | 0.020                      | -0.3303 |
| 0.040                       | -0.6577 | 0.040                    | -0.6305 | 0.040                      | -0.4891 |
| 0.060                       | -0.6938 | 0.060                    | -0.6509 | 0.060                      | -0.5778 |
| 0.080                       | -0.8124 | 0.080                    | -0.6674 | 0.080                      | -0.5903 |
| 0.100                       | -0.7634 | 0.100                    | -0.6754 | 0.100                      | -0.6015 |
| 0.125                       | -0.6921 | 0.125                    | -0.7696 | 0.125                      | -0.6226 |
| 0.150                       | -0.7849 | 0.150                    | -0.6629 | 0.150                      | -0.6921 |
| 0.175                       | -0.7749 | 0.175                    | -0.7583 | 0.175                      | -0.6487 |
| 0.200                       | -0.8268 | 0.200                    | -0.7745 | 0.200                      | -0.6637 |
| 0.250                       | -0.8980 | 0.250                    | -0.8690 | 0.250                      | -0.7548 |
| 0.300                       | -0.8259 | 0.300                    | -0.9107 | 0.300                      | -0.7395 |
| 0.350                       | -0.7938 | 0.350                    | -0.9323 | 0.350                      | -0.6764 |
| 0.400                       | -0.6771 | 0.400                    | -0.6191 | 0.400                      | -0.6164 |
| 0.450                       | -0.5489 | 0.450                    | -0.5724 | 0.450                      | -0.5710 |
| 0.500                       | -0.5231 | 0.500                    | -0.5485 | 0.500                      | -0.5056 |
| 0.550                       | -0.4514 | 0.550                    | -0.5179 | 0.550                      | -0.4627 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.4816 | 0.005 | 0.4787 | 0.005 | 0.4145 |
| 0.010         | 0.2247 | 0.010 | 0.1995 | 0.010 | 0.0768 |

Fight 34 Test point 38

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 20100. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 383.4 R<sub>npu</sub> = 3227000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9889  | 0.000                    | 1.0071  | 0.000                      | 0.9906  |
| 0.005                       | 0.2611  | 0.005                    | 0.3456  | 0.005                      | 0.5782  |
| 0.010                       | -0.0254 | 0.010                    | 0.0835  | 0.010                      | 0.3028  |
| 0.020                       | -0.2650 | 0.020                    | -0.1897 | 0.020                      | -0.0486 |
| 0.040                       | -0.4537 | 0.040                    | -0.3753 | 0.040                      | -0.2464 |
| 0.060                       | -0.5336 | 0.060                    | -0.4438 | 0.060                      | -0.3615 |
| 0.080                       | -0.5758 | 0.080                    | -0.4963 | 0.080                      | -0.4043 |
| 0.100                       | -0.6087 | 0.100                    | -0.5250 | 0.100                      | -0.4371 |
| 0.125                       | -0.5716 | 0.125                    | -0.5453 | 0.125                      | -0.4693 |
| 0.150                       | -0.6832 | 0.150                    | -0.5963 | 0.150                      | -0.5094 |
| 0.175                       | -0.6762 | 0.175                    | -0.6429 | 0.175                      | -0.5460 |
| 0.200                       | -0.7475 | 0.200                    | -0.6844 | 0.200                      | -0.5712 |
| 0.250                       | -0.8479 | 0.250                    | -0.7980 | 0.250                      | -0.6347 |
| 0.300                       | -0.8105 | 0.300                    | -0.8243 | 0.300                      | -0.6589 |
| 0.350                       | -0.7740 | 0.350                    | -0.8611 | 0.350                      | -0.7003 |
| 0.400                       | -0.6303 | 0.400                    | -0.6550 | 0.400                      | -0.6031 |
| 0.450                       | -0.5494 | 0.450                    | -0.5935 | 0.450                      | -0.5677 |
| 0.500                       | -0.5223 | 0.500                    | -0.5684 | 0.500                      | -0.5131 |
| 0.550                       | -0.4535 | 0.550                    | -0.5360 | 0.550                      | -0.4665 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3058 | 0.005 | 0.3047  | 0.005 | 0.2200  |
| 0.010 | 0.0021 | 0.010 | -0.0387 | 0.010 | -0.2023 |

Fight 34 Test point 39

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 381.5 R<sub>pu</sub> = 3221000.

Upper surface

| BL 200.8<br>Inboard station |                | BL 260<br>Middle station |                | BL 320<br>Outboard station |                |
|-----------------------------|----------------|--------------------------|----------------|----------------------------|----------------|
| x/c                         | C <sub>p</sub> | x/c                      | C <sub>p</sub> | x/c                        | C <sub>p</sub> |
| 0.000                       | 1.0364         | 0.000                    | 1.0633         | 0.000                      | 1.0438         |
| 0.005                       | 0.3340         | 0.005                    | 0.4361         | 0.005                      | 0.6727         |
| 0.010                       | 0.0415         | 0.010                    | 0.1675         | 0.010                      | 0.3989         |
| 0.020                       | -0.2070        | 0.020                    | -0.1120        | 0.020                      | 0.0464         |
| 0.040                       | -0.4146        | 0.040                    | -0.3145        | 0.040                      | -0.1670        |
| 0.060                       | -0.4837        | 0.060                    | -0.3888        | 0.060                      | -0.2887        |
| 0.080                       | -0.5471        | 0.080                    | -0.4490        | 0.080                      | -0.3390        |
| 0.100                       | -0.5833        | 0.100                    | -0.4815        | 0.100                      | -0.3759        |
| 0.125                       | -0.5569        | 0.125                    | -0.5110        | 0.125                      | -0.4113        |
| 0.150                       | -0.6671        | 0.150                    | -0.5591        | 0.150                      | -0.4581        |
| 0.175                       | -0.6750        | 0.175                    | -0.6146        | 0.175                      | -0.4964        |
| 0.200                       | -0.7307        | 0.200                    | -0.6541        | 0.200                      | -0.5225        |
| 0.250                       | -0.8342        | 0.250                    | -0.7694        | 0.250                      | -0.5955        |
| 0.300                       | -0.8535        | 0.300                    | -0.7842        | 0.300                      | -0.6211        |
| 0.350                       | -0.7076        | 0.350                    | -0.8301        | 0.350                      | -0.6518        |
| 0.400                       | -0.6124        | 0.400                    | -0.6779        | 0.400                      | -0.6057        |
| 0.450                       | -0.5383        | 0.450                    | -0.5852        | 0.450                      | -0.5750        |
| 0.500                       | -0.5116        | 0.500                    | -0.5666        | 0.500                      | -0.5003        |
| 0.550                       | -0.4419        | 0.550                    | -0.5316        | 0.550                      | -0.4533        |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.3019  | 0.005 | 0.2894  | 0.005 | 0.1873  |
| 0.010 | -0.0118 | 0.010 | -0.0778 | 0.010 | -0.2650 |

Fight 34 Test point 40

Sweep, deg = 20.0 Mach = 0.76 hp, ft = 20100. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 386.2 Rnpu = 3246000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9897  | 0.000                    | 1.0090  | 0.000                      | 0.9947  |
| 0.005                       | 0.1774  | 0.005                    | 0.2641  | 0.005                      | 0.5132  |
| 0.010                       | -0.1136 | 0.010                    | -0.0052 | 0.010                      | 0.2227  |
| 0.020                       | -0.3507 | 0.020                    | -0.2763 | 0.020                      | -0.1350 |
| 0.040                       | -0.5377 | 0.040                    | -0.4688 | 0.040                      | -0.3291 |
| 0.060                       | -0.6105 | 0.060                    | -0.5248 | 0.060                      | -0.4398 |
| 0.080                       | -0.6361 | 0.080                    | -0.5692 | 0.080                      | -0.4741 |
| 0.100                       | -0.6924 | 0.100                    | -0.5997 | 0.100                      | -0.5044 |
| 0.125                       | -0.6313 | 0.125                    | -0.6221 | 0.125                      | -0.5321 |
| 0.150                       | -0.7271 | 0.150                    | -0.6470 | 0.150                      | -0.5734 |
| 0.175                       | -0.7437 | 0.175                    | -0.6944 | 0.175                      | -0.6029 |
| 0.200                       | -0.8190 | 0.200                    | -0.7315 | 0.200                      | -0.6246 |
| 0.250                       | -0.8797 | 0.250                    | -0.8515 | 0.250                      | -0.7222 |
| 0.300                       | -0.9282 | 0.300                    | -0.8860 | 0.300                      | -0.7379 |
| 0.350                       | -0.8470 | 0.350                    | -0.9400 | 0.350                      | -0.7563 |
| 0.400                       | -0.7504 | 0.400                    | -0.9757 | 0.400                      | -0.7160 |
| 0.450                       | -0.5485 | 0.450                    | -0.5420 | 0.450                      | -0.5632 |
| 0.500                       | -0.5256 | 0.500                    | -0.5207 | 0.500                      | -0.5185 |
| 0.550                       | -0.4564 | 0.550                    | -0.5220 | 0.550                      | -0.4670 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3923 | 0.005 | 0.3883 | 0.005 | 0.3092  |
| 0.010 | 0.1004 | 0.010 | 0.0641 | 0.010 | -0.0948 |

Fight 34 Test point 41

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 20100. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 382.1 Rnpu = 3219000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0410  | 0.000                    | 1.0664  | 0.000                      | 1.0496  |
| 0.005                       | 0.2594  | 0.005                    | 0.3701  | 0.005                      | 0.6167  |
| 0.010                       | -0.0338 | 0.010                    | 0.0980  | 0.010                      | 0.3341  |
| 0.020                       | -0.2794 | 0.020                    | -0.1830 | 0.020                      | -0.0298 |
| 0.040                       | -0.4839 | 0.040                    | -0.3838 | 0.040                      | -0.2349 |
| 0.060                       | -0.5455 | 0.060                    | -0.4577 | 0.060                      | -0.3569 |
| 0.080                       | -0.6056 | 0.080                    | -0.5079 | 0.080                      | -0.4011 |
| 0.100                       | -0.6401 | 0.100                    | -0.5385 | 0.100                      | -0.4345 |
| 0.125                       | -0.5924 | 0.125                    | -0.5595 | 0.125                      | -0.4627 |
| 0.150                       | -0.7088 | 0.150                    | -0.6045 | 0.150                      | -0.5077 |
| 0.175                       | -0.7235 | 0.175                    | -0.6561 | 0.175                      | -0.5449 |
| 0.200                       | -0.8017 | 0.200                    | -0.7044 | 0.200                      | -0.5705 |
| 0.250                       | -0.8690 | 0.250                    | -0.8259 | 0.250                      | -0.6468 |
| 0.300                       | -0.9185 | 0.300                    | -0.8457 | 0.300                      | -0.6698 |
| 0.350                       | -0.9069 | 0.350                    | -0.9006 | 0.350                      | -0.7316 |
| 0.400                       | -0.6036 | 0.400                    | -0.9519 | 0.400                      | -0.6545 |
| 0.450                       | -0.5308 | 0.450                    | -0.5315 | 0.450                      | -0.5737 |
| 0.500                       | -0.5110 | 0.500                    | -0.5373 | 0.500                      | -0.5156 |
| 0.550                       | -0.4430 | 0.550                    | -0.5289 | 0.550                      | -0.4634 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.3804 | 0.005 | 0.3617 | 0.005 | 0.2675  |
| 0.010         | 0.0765 | 0.010 | 0.0156 | 0.010 | -0.1621 |

Fight 34 Test point 42

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 20200. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 383.0 Rnpu = 3220000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9778  | 0.000                    | 0.9964  | 0.000                      | 0.9858  |
| 0.005                       | 0.0495  | 0.005                    | 0.1446  | 0.005                      | 0.4108  |
| 0.010                       | -0.2501 | 0.010                    | -0.1325 | 0.010                      | 0.1024  |
| 0.020                       | -0.4792 | 0.020                    | -0.4016 | 0.020                      | -0.2673 |
| 0.040                       | -0.6615 | 0.040                    | -0.5933 | 0.040                      | -0.4494 |
| 0.060                       | -0.6789 | 0.060                    | -0.6424 | 0.060                      | -0.5577 |
| 0.080                       | -0.7954 | 0.080                    | -0.6764 | 0.080                      | -0.5865 |
| 0.100                       | -0.7534 | 0.100                    | -0.6785 | 0.100                      | -0.6024 |
| 0.125                       | -0.7109 | 0.125                    | -0.7420 | 0.125                      | -0.6129 |
| 0.150                       | -0.8215 | 0.150                    | -0.7724 | 0.150                      | -0.6880 |
| 0.175                       | -0.8115 | 0.175                    | -0.7455 | 0.175                      | -0.7262 |
| 0.200                       | -0.8959 | 0.200                    | -0.7998 | 0.200                      | -0.6854 |
| 0.250                       | -0.9668 | 0.250                    | -0.9161 | 0.250                      | -0.7900 |
| 0.300                       | -1.0092 | 0.300                    | -0.9533 | 0.300                      | -0.8474 |
| 0.350                       | -0.9950 | 0.350                    | -1.0084 | 0.350                      | -0.8732 |
| 0.400                       | -0.8416 | 0.400                    | -1.0727 | 0.400                      | -0.8772 |
| 0.450                       | -0.5469 | 0.450                    | -1.0622 | 0.450                      | -0.5316 |
| 0.500                       | -0.5168 | 0.500                    | -0.4772 | 0.500                      | -0.5035 |
| 0.550                       | -0.4570 | 0.550                    | -0.4828 | 0.550                      | -0.4748 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4943 | 0.005 | 0.4886 | 0.005 | 0.4159 |
| 0.010 | 0.2214 | 0.010 | 0.1830 | 0.010 | 0.0451 |



Fight 34 Test point 43

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = -0.2  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 439.0 R<sub>npu</sub> = 3481000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9936  | 0.000                    | 1.0120  | 0.000                      | 0.9893  |
| 0.005                       | 0.4492  | 0.005                    | 0.5194  | 0.005                      | 0.6986  |
| 0.010                       | 0.1775  | 0.010                    | 0.2786  | 0.010                      | 0.4561  |
| 0.020                       | -0.0667 | 0.020                    | 0.0093  | 0.020                      | 0.1257  |
| 0.040                       | -0.2695 | 0.040                    | -0.1955 | 0.040                      | -0.0868 |
| 0.060                       | -0.3675 | 0.060                    | -0.2797 | 0.060                      | -0.2129 |
| 0.080                       | -0.4224 | 0.080                    | -0.3472 | 0.080                      | -0.2713 |
| 0.100                       | -0.4735 | 0.100                    | -0.3849 | 0.100                      | -0.3135 |
| 0.125                       | -0.4739 | 0.125                    | -0.4118 | 0.125                      | -0.3604 |
| 0.150                       | -0.5651 | 0.150                    | -0.4707 | 0.150                      | -0.4064 |
| 0.175                       | -0.5912 | 0.175                    | -0.5112 | 0.175                      | -0.4521 |
| 0.200                       | -0.6627 | 0.200                    | -0.5704 | 0.200                      | -0.4754 |
| 0.250                       | -0.7402 | 0.250                    | -0.6929 | 0.250                      | -0.5805 |
| 0.300                       | -0.8264 | 0.300                    | -0.7503 | 0.300                      | -0.6367 |
| 0.350                       | -0.8485 | 0.350                    | -0.8191 | 0.350                      | -0.7131 |
| 0.400                       | -0.8653 | 0.400                    | -0.8909 | 0.400                      | -0.7684 |
| 0.450                       | -0.8856 | 0.450                    | -0.9155 | 0.450                      | -0.8343 |
| 0.500                       | -0.9420 | 0.500                    | -0.9687 | 0.500                      | -0.8542 |
| 0.550                       | -0.4614 | 0.550                    | -0.9992 | 0.550                      | -0.8784 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.1981  | 0.005 | 0.2004  | 0.005 | 0.1356  |
| 0.010 | -0.1195 | 0.010 | -0.1620 | 0.010 | -0.3017 |

Flight 34 Test point 44

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = -0.2  
 Angle of sideslip, deg = +5.1 QBAR, lb/ft<sup>2</sup> = 437.6 Rnpu = 3474000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0424  | 0.000                    | 1.0681  | 0.000                      | 1.0483  |
| 0.005                       | 0.4923  | 0.005                    | 0.5808  | 0.005                      | 0.7629  |
| 0.010                       | 0.2164  | 0.010                    | 0.3343  | 0.010                      | 0.5168  |
| 0.020                       | -0.0336 | 0.020                    | 0.0572  | 0.020                      | 0.1787  |
| 0.040                       | -0.2519 | 0.040                    | -0.1567 | 0.040                      | -0.0393 |
| 0.060                       | -0.3413 | 0.060                    | -0.2493 | 0.060                      | -0.1751 |
| 0.080                       | -0.4135 | 0.080                    | -0.3156 | 0.080                      | -0.2357 |
| 0.100                       | -0.4633 | 0.100                    | -0.3589 | 0.100                      | -0.2809 |
| 0.125                       | -0.4685 | 0.125                    | -0.3958 | 0.125                      | -0.3240 |
| 0.150                       | -0.5518 | 0.150                    | -0.4522 | 0.150                      | -0.3809 |
| 0.175                       | -0.5899 | 0.175                    | -0.5065 | 0.175                      | -0.4227 |
| 0.200                       | -0.6663 | 0.200                    | -0.5559 | 0.200                      | -0.4571 |
| 0.250                       | -0.7530 | 0.250                    | -0.6764 | 0.250                      | -0.5634 |
| 0.300                       | -0.8365 | 0.300                    | -0.7260 | 0.300                      | -0.6147 |
| 0.350                       | -0.8570 | 0.350                    | -0.7998 | 0.350                      | -0.6955 |
| 0.400                       | -0.8686 | 0.400                    | -0.8853 | 0.400                      | -0.7269 |
| 0.450                       | -0.9032 | 0.450                    | -0.9150 | 0.450                      | -0.8065 |
| 0.500                       | -0.9893 | 0.500                    | -0.9748 | 0.500                      | -0.8363 |
| 0.550                       | -0.5363 | 0.550                    | -1.0075 | 0.550                      | -0.8557 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2281  | 0.005 | 0.2203  | 0.005 | 0.1575  |
| 0.010 | -0.0967 | 0.010 | -0.1560 | 0.010 | -0.2939 |

Fight 34 Test point 45

Sweep, deg = 20.0 Mach = 0.81 hp, ft = 20200. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 438.7 Rrho = 3473000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0094  | 0.000                    | 1.0278  | 0.000                      | 1.0054  |
| 0.005                       | 0.3030  | 0.005                    | 0.3871  | 0.005                      | 0.5979  |
| 0.010                       | 0.0199  | 0.010                    | 0.1311  | 0.010                      | 0.3319  |
| 0.020                       | -0.2167 | 0.020                    | -0.1379 | 0.020                      | -0.0159 |
| 0.040                       | -0.4140 | 0.040                    | -0.3285 | 0.040                      | -0.2166 |
| 0.060                       | -0.4891 | 0.060                    | -0.4036 | 0.060                      | -0.3417 |
| 0.080                       | -0.6015 | 0.080                    | -0.4590 | 0.080                      | -0.3869 |
| 0.100                       | -0.5830 | 0.100                    | -0.4817 | 0.100                      | -0.4166 |
| 0.125                       | -0.5768 | 0.125                    | -0.5660 | 0.125                      | -0.4496 |
| 0.150                       | -0.6596 | 0.150                    | -0.5752 | 0.150                      | -0.5305 |
| 0.175                       | -0.6738 | 0.175                    | -0.5885 | 0.175                      | -0.6029 |
| 0.200                       | -0.7571 | 0.200                    | -0.6380 | 0.200                      | -0.5464 |
| 0.250                       | -0.8416 | 0.250                    | -0.7628 | 0.250                      | -0.6461 |
| 0.300                       | -0.9118 | 0.300                    | -0.8226 | 0.300                      | -0.7332 |
| 0.350                       | -0.9222 | 0.350                    | -0.8858 | 0.350                      | -0.8082 |
| 0.400                       | -0.9408 | 0.400                    | -0.9601 | 0.400                      | -0.8497 |
| 0.450                       | -0.9447 | 0.450                    | -0.9945 | 0.450                      | -0.9139 |
| 0.500                       | -1.0602 | 0.500                    | -1.0517 | 0.500                      | -0.9421 |
| 0.550                       | -0.5060 | 0.550                    | -0.6167 | 0.550                      | -0.9666 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3616 | 0.005 | 0.3500 | 0.005 | 0.2755  |
| 0.010 | 0.0632 | 0.010 | 0.0142 | 0.010 | -0.1366 |

Fight 34 Test point 46

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 19800. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -4.4 QBAR, lb/ft<sup>2</sup> = 442.9 Rnpu = 3501000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0543  | 0.000                    | 1.0763  | 0.000                      | 1.0541  |
| 0.005                       | 0.3879  | 0.005                    | 0.4914  | 0.005                      | 0.6967  |
| 0.010                       | 0.1039  | 0.010                    | 0.2326  | 0.010                      | 0.4346  |
| 0.020                       | -0.1387 | 0.020                    | -0.0451 | 0.020                      | 0.0838  |
| 0.040                       | -0.3482 | 0.040                    | -0.2531 | 0.040                      | -0.1281 |
| 0.060                       | -0.4290 | 0.060                    | -0.3368 | 0.060                      | -0.2579 |
| 0.080                       | -0.4906 | 0.080                    | -0.3967 | 0.080                      | -0.3117 |
| 0.100                       | -0.5530 | 0.100                    | -0.4373 | 0.100                      | -0.3517 |
| 0.125                       | -0.5414 | 0.125                    | -0.5033 | 0.125                      | -0.3911 |
| 0.150                       | -0.6083 | 0.150                    | -0.4947 | 0.150                      | -0.4589 |
| 0.175                       | -0.6477 | 0.175                    | -0.5766 | 0.175                      | -0.4872 |
| 0.200                       | -0.7310 | 0.200                    | -0.6045 | 0.200                      | -0.5124 |
| 0.250                       | -0.8178 | 0.250                    | -0.7235 | 0.250                      | -0.6152 |
| 0.300                       | -0.9002 | 0.300                    | -0.7869 | 0.300                      | -0.6734 |
| 0.350                       | -0.9102 | 0.350                    | -0.8580 | 0.350                      | -0.7607 |
| 0.400                       | -0.9310 | 0.400                    | -0.9400 | 0.400                      | -0.7954 |
| 0.450                       | -0.9617 | 0.450                    | -0.9689 | 0.450                      | -0.8594 |
| 0.500                       | -1.0443 | 0.500                    | -1.0242 | 0.500                      | -0.8908 |
| 0.550                       | -0.5175 | 0.550                    | -0.6989 | 0.550                      | -0.9043 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3367 | 0.005 | 0.3158  | 0.005 | 0.2401  |
| 0.010 | 0.0248 | 0.010 | -0.0399 | 0.010 | -0.1941 |

Flight 34 Test point 47

Sweep, deg = 24.9 Mach = 0.81 hp, ft = 20000. Angle of attack, deg = -0.3  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 441.4 Rnpu = 3493000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9290  | 0.000                    | 0.9352  | 0.000                      | 0.9151  |
| 0.005                       | 0.3944  | 0.005                    | 0.4553  | 0.005                      | 0.6334  |
| 0.010                       | 0.1307  | 0.010                    | 0.2237  | 0.010                      | 0.3987  |
| 0.020                       | -0.1045 | 0.020                    | -0.0324 | 0.020                      | 0.0806  |
| 0.040                       | -0.2862 | 0.040                    | -0.2239 | 0.040                      | -0.1194 |
| 0.060                       | -0.3636 | 0.060                    | -0.3018 | 0.060                      | -0.2383 |
| 0.080                       | -0.4308 | 0.080                    | -0.3546 | 0.080                      | -0.2818 |
| 0.100                       | -0.4762 | 0.100                    | -0.4075 | 0.100                      | -0.3197 |
| 0.125                       | -0.4712 | 0.125                    | -0.4230 | 0.125                      | -0.3725 |
| 0.150                       | -0.5662 | 0.150                    | -0.4813 | 0.150                      | -0.4108 |
| 0.175                       | -0.5799 | 0.175                    | -0.5209 | 0.175                      | -0.4606 |
| 0.200                       | -0.6302 | 0.200                    | -0.5761 | 0.200                      | -0.4831 |
| 0.250                       | -0.7364 | 0.250                    | -0.6874 | 0.250                      | -0.5970 |
| 0.300                       | -0.7793 | 0.300                    | -0.7428 | 0.300                      | -0.6392 |
| 0.350                       | -0.7645 | 0.350                    | -0.7962 | 0.350                      | -0.7110 |
| 0.400                       | -0.7189 | 0.400                    | -0.8590 | 0.400                      | -0.7645 |
| 0.450                       | -0.7479 | 0.450                    | -0.8764 | 0.450                      | -0.8154 |
| 0.500                       | -0.8001 | 0.500                    | -0.9212 | 0.500                      | -0.8394 |
| 0.550                       | -0.4143 | 0.550                    | -0.6303 | 0.550                      | -0.4042 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.1731  | 0.005 | 0.1672  | 0.005 | 0.0934  |
| 0.010 | -0.1345 | 0.010 | -0.1757 | 0.010 | -0.3276 |

Flight 34 Test point 48

Sweep, deg = 24.9 Mach = 0.81 hp, ft = 20100. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 438.5 Rnpu = 3479000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9436  | 0.000                    | 0.9491  | 0.000                      | 0.9293  |
| 0.005                       | 0.3151  | 0.005                    | 0.3790  | 0.005                      | 0.5754  |
| 0.010                       | 0.0428  | 0.010                    | 0.1407  | 0.010                      | 0.3282  |
| 0.020                       | -0.1891 | 0.020                    | -0.1189 | 0.020                      | -0.0019 |
| 0.040                       | -0.3656 | 0.040                    | -0.3054 | 0.040                      | -0.1981 |
| 0.060                       | -0.4596 | 0.060                    | -0.3689 | 0.060                      | -0.3116 |
| 0.080                       | -0.4954 | 0.080                    | -0.4163 | 0.080                      | -0.3572 |
| 0.100                       | -0.5429 | 0.100                    | -0.4688 | 0.100                      | -0.3870 |
| 0.125                       | -0.5185 | 0.125                    | -0.5520 | 0.125                      | -0.4299 |
| 0.150                       | -0.6126 | 0.150                    | -0.5230 | 0.150                      | -0.5123 |
| 0.175                       | -0.6340 | 0.175                    | -0.5917 | 0.175                      | -0.4959 |
| 0.200                       | -0.7061 | 0.200                    | -0.6134 | 0.200                      | -0.5110 |
| 0.250                       | -0.7811 | 0.250                    | -0.7366 | 0.250                      | -0.6359 |
| 0.300                       | -0.8498 | 0.300                    | -0.7919 | 0.300                      | -0.6963 |
| 0.350                       | -0.8537 | 0.350                    | -0.8568 | 0.350                      | -0.7652 |
| 0.400                       | -0.8549 | 0.400                    | -0.9176 | 0.400                      | -0.8148 |
| 0.450                       | -0.7240 | 0.450                    | -0.9409 | 0.450                      | -0.8771 |
| 0.500                       | -0.8179 | 0.500                    | -0.9871 | 0.500                      | -0.8978 |
| 0.550                       | -0.4494 | 0.550                    | -0.8258 | 0.550                      | -0.6082 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2650  | 0.005 | 0.2556  | 0.005 | 0.1822  |
| 0.010 | -0.0338 | 0.010 | -0.0697 | 0.010 | -0.2200 |

FIGHT 34 Test point 49

Sweep, deg = 24.9 Mach = 0.80 hp, ft = 20100. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.6 QBAR, lb/ft<sup>2</sup> = 433.9 Rnpu = 3458000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9454  | 0.000                    | 0.9515  | 0.000                      | 0.9368  |
| 0.005                       | 0.1582  | 0.005                    | 0.2323  | 0.005                      | 0.4609  |
| 0.010                       | -0.1247 | 0.010                    | -0.0155 | 0.010                      | 0.1890  |
| 0.020                       | -0.3503 | 0.020                    | -0.2727 | 0.020                      | -0.1546 |
| 0.040                       | -0.5107 | 0.040                    | -0.4492 | 0.040                      | -0.3386 |
| 0.060                       | -0.5472 | 0.060                    | -0.5060 | 0.060                      | -0.4516 |
| 0.080                       | -0.6831 | 0.080                    | -0.5824 | 0.080                      | -0.4806 |
| 0.100                       | -0.6496 | 0.100                    | -0.5390 | 0.100                      | -0.4926 |
| 0.125                       | -0.6332 | 0.125                    | -0.6383 | 0.125                      | -0.5060 |
| 0.150                       | -0.7181 | 0.150                    | -0.6583 | 0.150                      | -0.5871 |
| 0.175                       | -0.7293 | 0.175                    | -0.6711 | 0.175                      | -0.6690 |
| 0.200                       | -0.8015 | 0.200                    | -0.6993 | 0.200                      | -0.6426 |
| 0.250                       | -0.8887 | 0.250                    | -0.8182 | 0.250                      | -0.6969 |
| 0.300                       | -0.9476 | 0.300                    | -0.8639 | 0.300                      | -0.7651 |
| 0.350                       | -0.9254 | 0.350                    | -0.9294 | 0.350                      | -0.8422 |
| 0.400                       | -0.9547 | 0.400                    | -1.0045 | 0.400                      | -0.8831 |
| 0.450                       | -0.9750 | 0.450                    | -1.0251 | 0.450                      | -0.9543 |
| 0.500                       | -1.0394 | 0.500                    | -1.0786 | 0.500                      | -0.9745 |
| 0.550                       | -0.4459 | 0.550                    | -0.5514 | 0.550                      | -0.6858 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4121 | 0.005 | 0.4010 | 0.005 | 0.3335  |
| 0.010 | 0.1373 | 0.010 | 0.0977 | 0.010 | -0.0324 |

Flight 34 Test point 50

Sweep, deg = 30.0 Mach = 0.81 hp, ft = 20000. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 441.9 Rnpu = 3496000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8500  | 0.000                    | 0.8454  | 0.000                      | 0.8290  |
| 0.005                       | 0.2760  | 0.005                    | 0.3193  | 0.005                      | 0.5050  |
| 0.010                       | 0.0200  | 0.010                    | 0.1081  | 0.010                      | 0.2767  |
| 0.020                       | -0.1899 | 0.020                    | -0.1369 | 0.020                      | -0.0195 |
| 0.040                       | -0.3393 | 0.040                    | -0.2935 | 0.040                      | -0.1960 |
| 0.060                       | -0.4138 | 0.060                    | -0.3611 | 0.060                      | -0.2959 |
| 0.080                       | -0.4639 | 0.080                    | -0.4165 | 0.080                      | -0.3439 |
| 0.100                       | -0.4923 | 0.100                    | -0.4761 | 0.100                      | -0.3830 |
| 0.125                       | -0.4674 | 0.125                    | -0.4543 | 0.125                      | -0.4336 |
| 0.150                       | -0.5427 | 0.150                    | -0.5080 | 0.150                      | -0.4432 |
| 0.175                       | -0.5477 | 0.175                    | -0.5444 | 0.175                      | -0.4864 |
| 0.200                       | -0.6273 | 0.200                    | -0.5921 | 0.200                      | -0.5129 |
| 0.250                       | -0.6811 | 0.250                    | -0.6890 | 0.250                      | -0.5973 |
| 0.300                       | -0.7064 | 0.300                    | -0.7320 | 0.300                      | -0.6170 |
| 0.350                       | -0.6902 | 0.350                    | -0.7574 | 0.350                      | -0.6822 |
| 0.400                       | -0.6838 | 0.400                    | -0.7961 | 0.400                      | -0.7113 |
| 0.450                       | -0.6484 | 0.450                    | -0.6868 | 0.450                      | -0.4351 |
| 0.500                       | -0.4544 | 0.500                    | -0.4344 | 0.500                      | -0.4181 |
| 0.550                       | -0.4145 | 0.550                    | -0.4408 | 0.550                      | -0.3986 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2024  | 0.005 | 0.2015  | 0.005 | 0.1342  |
| 0.010 | -0.0795 | 0.010 | -0.0998 | 0.010 | -0.2297 |



Fight 34 Test point 51

Sweep, deg = 30.0 Mach = 0.80 hp, ft = 20100. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 437.8 Rnpu = 3474000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8551  | 0.000                    | 0.8507  | 0.000                      | 0.8369  |
| 0.005                       | 0.1777  | 0.005                    | 0.2253  | 0.005                      | 0.4288  |
| 0.010                       | -0.0887 | 0.010                    | 0.0064  | 0.010                      | 0.1852  |
| 0.020                       | -0.3044 | 0.020                    | -0.2388 | 0.020                      | -0.1219 |
| 0.040                       | -0.4274 | 0.040                    | -0.3893 | 0.040                      | -0.2926 |
| 0.060                       | -0.5212 | 0.060                    | -0.4437 | 0.060                      | -0.3867 |
| 0.080                       | -0.5272 | 0.080                    | -0.4847 | 0.080                      | -0.4199 |
| 0.100                       | -0.5755 | 0.100                    | -0.5347 | 0.100                      | -0.4467 |
| 0.125                       | -0.5411 | 0.125                    | -0.6131 | 0.125                      | -0.5000 |
| 0.150                       | -0.6386 | 0.150                    | -0.5306 | 0.150                      | -0.5699 |
| 0.175                       | -0.6352 | 0.175                    | -0.6006 | 0.175                      | -0.5611 |
| 0.200                       | -0.6663 | 0.200                    | -0.6383 | 0.200                      | -0.5351 |
| 0.250                       | -0.6581 | 0.250                    | -0.7465 | 0.250                      | -0.6604 |
| 0.300                       | -0.7434 | 0.300                    | -0.7871 | 0.300                      | -0.7024 |
| 0.350                       | -0.7397 | 0.350                    | -0.8232 | 0.350                      | -0.7480 |
| 0.400                       | -0.7324 | 0.400                    | -0.8601 | 0.400                      | -0.7916 |
| 0.450                       | -0.7286 | 0.450                    | -0.8662 | 0.450                      | -0.5313 |
| 0.500                       | -0.5000 | 0.500                    | -0.4447 | 0.500                      | -0.3768 |
| 0.550                       | -0.4113 | 0.550                    | -0.4153 | 0.550                      | -0.3906 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.2966 | 0.005 | 0.2936 | 0.005 | 0.2308  |
| 0.010         | 0.0292 | 0.010 | 0.0105 | 0.010 | -0.1022 |

Fight 34 Test point 52

Sweep, deg = 30.1 Mach = 0.81 hp, ft = 19800. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 445.2 Rnpu = 3518000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8515  | 0.000                    | 0.8386  | 0.000                      | 0.8269  |
| 0.005                       | 0.0790  | 0.005                    | 0.1268  | 0.005                      | 0.3414  |
| 0.010                       | -0.1944 | 0.010                    | -0.1015 | 0.010                      | 0.0834  |
| 0.020                       | -0.4030 | 0.020                    | -0.3437 | 0.020                      | -0.2311 |
| 0.040                       | -0.5279 | 0.040                    | -0.5176 | 0.040                      | -0.3937 |
| 0.060                       | -0.5643 | 0.060                    | -0.5268 | 0.060                      | -0.4929 |
| 0.080                       | -0.6932 | 0.080                    | -0.6135 | 0.080                      | -0.5274 |
| 0.100                       | -0.6600 | 0.100                    | -0.5383 | 0.100                      | -0.5106 |
| 0.125                       | -0.6131 | 0.125                    | -0.6705 | 0.125                      | -0.5443 |
| 0.150                       | -0.6951 | 0.150                    | -0.6653 | 0.150                      | -0.6320 |
| 0.175                       | -0.6987 | 0.175                    | -0.6866 | 0.175                      | -0.6879 |
| 0.200                       | -0.7576 | 0.200                    | -0.6954 | 0.200                      | -0.6523 |
| 0.250                       | -0.8206 | 0.250                    | -0.7931 | 0.250                      | -0.7059 |
| 0.300                       | -0.8660 | 0.300                    | -0.8410 | 0.300                      | -0.7595 |
| 0.350                       | -0.7154 | 0.350                    | -0.8954 | 0.350                      | -0.8162 |
| 0.400                       | -0.7611 | 0.400                    | -0.9425 | 0.400                      | -0.8629 |
| 0.450                       | -0.7618 | 0.450                    | -0.9568 | 0.450                      | -0.9160 |
| 0.500                       | -0.7547 | 0.500                    | -0.8943 | 0.500                      | -0.5107 |
| 0.550                       | -0.4177 | 0.550                    | -0.4098 | 0.550                      | -0.3503 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.3937 | 0.005 | 0.3831 | 0.005 | 0.3308 |
| 0.010         | 0.1425 | 0.010 | 0.1193 | 0.010 | 0.0198 |

Fight 34 Test point 53

Sweep, deg = 30.1 Mach = 0.83 hp, ft = 20000. Angle of attack, deg = -0.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 470.4 Rnpu = 3620000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8527  | 0.000                    | 0.8461  | 0.000                      | 0.8266  |
| 0.005                       | 0.3194  | 0.005                    | 0.3665  | 0.005                      | 0.5383  |
| 0.010                       | 0.0664  | 0.010                    | 0.1582  | 0.010                      | 0.3200  |
| 0.020                       | -0.1445 | 0.020                    | -0.0819 | 0.020                      | 0.0312  |
| 0.040                       | -0.2952 | 0.040                    | -0.2438 | 0.040                      | -0.1503 |
| 0.060                       | -0.3899 | 0.060                    | -0.3170 | 0.060                      | -0.2584 |
| 0.080                       | -0.4330 | 0.080                    | -0.3684 | 0.080                      | -0.3043 |
| 0.100                       | -0.4808 | 0.100                    | -0.4319 | 0.100                      | -0.3437 |
| 0.125                       | -0.4558 | 0.125                    | -0.4417 | 0.125                      | -0.4026 |
| 0.150                       | -0.5470 | 0.150                    | -0.4640 | 0.150                      | -0.4741 |
| 0.175                       | -0.5507 | 0.175                    | -0.5107 | 0.175                      | -0.4656 |
| 0.200                       | -0.6069 | 0.200                    | -0.5555 | 0.200                      | -0.4692 |
| 0.250                       | -0.6655 | 0.250                    | -0.6635 | 0.250                      | -0.5849 |
| 0.300                       | -0.6689 | 0.300                    | -0.7121 | 0.300                      | -0.6335 |
| 0.350                       | -0.6704 | 0.350                    | -0.7606 | 0.350                      | -0.6947 |
| 0.400                       | -0.7001 | 0.400                    | -0.8055 | 0.400                      | -0.7483 |
| 0.450                       | -0.7030 | 0.450                    | -0.8215 | 0.450                      | -0.8008 |
| 0.500                       | -0.7639 | 0.500                    | -0.8440 | 0.500                      | -0.8277 |
| 0.550                       | -0.6706 | 0.550                    | -0.8247 | 0.550                      | -0.4733 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.1925  | 0.005 | 0.1743  | 0.005 | 0.1012  |
| 0.010 | -0.0899 | 0.010 | -0.1281 | 0.010 | -0.2672 |

Fight 34 Test point 54

Sweep, deg = 30.0 Mach = 0.83 hp, ft = 20000. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 465.0 Rnpu = 3592000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8595  | 0.000                    | 0.8517  | 0.000                      | 0.8365  |
| 0.005                       | 0.2179  | 0.005                    | -0.2672 | 0.005                      | 0.4590  |
| 0.010                       | -0.0409 | 0.010                    | 0.0506  | 0.010                      | 0.2227  |
| 0.020                       | -0.2607 | 0.020                    | -0.1930 | 0.020                      | -0.0813 |
| 0.040                       | -0.3905 | 0.040                    | -0.3499 | 0.040                      | -0.2542 |
| 0.060                       | -0.4703 | 0.060                    | -0.4195 | 0.060                      | -0.3554 |
| 0.080                       | -0.4665 | 0.080                    | -0.4332 | 0.080                      | -0.3837 |
| 0.100                       | -0.5535 | 0.100                    | -0.4866 | 0.100                      | -0.4071 |
| 0.125                       | -0.5299 | 0.125                    | -0.5884 | 0.125                      | -0.4573 |
| 0.150                       | -0.6116 | 0.150                    | -0.5554 | 0.150                      | -0.5402 |
| 0.175                       | -0.6231 | 0.175                    | -0.5762 | 0.175                      | -0.5856 |
| 0.200                       | -0.6799 | 0.200                    | -0.6012 | 0.200                      | -0.5540 |
| 0.250                       | -0.7517 | 0.250                    | -0.7091 | 0.250                      | -0.6318 |
| 0.300                       | -0.8048 | 0.300                    | -0.7722 | 0.300                      | -0.6794 |
| 0.350                       | -0.6612 | 0.350                    | -0.8233 | 0.350                      | -0.7510 |
| 0.400                       | -0.7022 | 0.400                    | -0.8818 | 0.400                      | -0.8040 |
| 0.450                       | -0.7280 | 0.450                    | -0.9007 | 0.450                      | -0.8614 |
| 0.500                       | -0.7977 | 0.500                    | -0.9278 | 0.500                      | -0.8903 |
| 0.550                       | -0.7041 | 0.550                    | -0.7179 | 0.550                      | -0.4961 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.2874 | 0.005 | 0.2804  | 0.005 | 0.2207  |
| 0.010 | 0.0174 | 0.010 | -0.0041 | 0.010 | -0.1185 |

Fight 34 Test point 55

Sweep, deg = 30.0 Mach = 0.83 hp, ft = 20100. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 462.9 Rnpu = 3581000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8582  | 0.000                    | 0.8445  | 0.000                      | 0.8309  |
| 0.005                       | 0.7081  | 0.005                    | 0.1523  | 0.005                      | 0.3594  |
| 0.010                       | -0.1643 | 0.010                    | -0.0729 | 0.010                      | 0.1048  |
| 0.020                       | -0.3783 | 0.020                    | -0.3116 | 0.020                      | -0.2086 |
| 0.040                       | -0.5046 | 0.040                    | -0.4826 | 0.040                      | -0.3696 |
| 0.060                       | -0.4975 | 0.060                    | -0.5387 | 0.060                      | -0.4480 |
| 0.080                       | -0.6596 | 0.080                    | -0.5944 | 0.080                      | -0.5096 |
| 0.100                       | -0.6531 | 0.100                    | -0.5895 | 0.100                      | -0.5222 |
| 0.125                       | -0.6087 | 0.125                    | -0.6212 | 0.125                      | -0.4975 |
| 0.150                       | -0.6904 | 0.150                    | -0.6376 | 0.150                      | -0.5960 |
| 0.175                       | -0.6949 | 0.175                    | -0.6692 | 0.175                      | -0.6654 |
| 0.200                       | -0.7453 | 0.200                    | -0.6876 | 0.200                      | -0.6453 |
| 0.250                       | -0.8232 | 0.250                    | -0.7842 | 0.250                      | -0.7030 |
| 0.300                       | -0.8800 | 0.300                    | -0.8340 | 0.300                      | -0.7532 |
| 0.350                       | -0.8808 | 0.350                    | -0.8888 | 0.350                      | -0.8152 |
| 0.400                       | -0.8653 | 0.400                    | -0.9429 | 0.400                      | -0.8606 |
| 0.450                       | -0.7369 | 0.450                    | -0.9674 | 0.450                      | -0.9176 |
| 0.500                       | -0.7970 | 0.500                    | -1.0055 | 0.500                      | -0.9486 |
| 0.550                       | -0.7550 | 0.550                    | -0.5293 | 0.550                      | -0.5035 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.3999 | 0.005 | 0.3840 | 0.005 | 0.3345 |
| 0.010         | 0.1493 | 0.010 | 0.1214 | 0.010 | 0.0252 |

Fight 35 Test point 1

Sweep, deg = 30.1 Mach = 0.82 hp, ft = 25000. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 373.6 Rnpu = 2997000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8620  | 0.000                    | 0.8550  | 0.000                      | 0.8388  |
| 0.005                       | 0.1926  | 0.005                    | 0.2342  | 0.005                      | 0.4296  |
| 0.010                       | -0.0700 | 0.010                    | 0.0181  | 0.010                      | 0.1829  |
| 0.020                       | -0.2874 | 0.020                    | -0.2253 | 0.020                      | -0.1211 |
| 0.040                       | -0.4127 | 0.040                    | -0.3875 | 0.040                      | -0.2901 |
| 0.060                       | -0.4972 | 0.060                    | -0.4492 | 0.060                      | -0.3970 |
| 0.080                       | -0.5977 | 0.080                    | -0.4955 | 0.080                      | -0.4221 |
| 0.100                       | -0.5691 | 0.100                    | -0.5247 | 0.100                      | -0.4429 |
| 0.125                       | -0.5376 | 0.125                    | -0.5493 | 0.125                      | -0.4905 |
| 0.150                       | -0.6279 | 0.150                    | -0.5712 | 0.150                      | -0.5575 |
| 0.175                       | -0.6426 | 0.175                    | -0.6145 | 0.175                      | -0.5991 |
| 0.200                       | -0.7068 | 0.200                    | -0.6427 | 0.200                      | -0.5894 |
| 0.250                       | -0.7764 | 0.250                    | -0.7374 | 0.250                      | -0.6517 |
| 0.300                       | -0.8236 | 0.300                    | -0.7956 | 0.300                      | -0.7062 |
| 0.350                       | -0.7667 | 0.350                    | -0.8498 | 0.350                      | -0.7719 |
| 0.400                       | -0.7092 | 0.400                    | -0.9065 | 0.400                      | -0.8268 |
| 0.450                       | -0.7331 | 0.450                    | -0.9185 | 0.450                      | -0.8883 |
| 0.500                       | -0.8117 | 0.500                    | -0.9560 | 0.500                      | -0.9132 |
| 0.550                       | -0.6609 | 0.550                    | -0.6923 | 0.550                      | -0.5906 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3102 | 0.005 | 0.3049 | 0.005 | 0.2558  |
| 0.010 | 0.0424 | 0.010 | 0.0221 | 0.010 | -0.0799 |

Fight 35 Test point 2

Sweep, deg = 30.1 Mach = 0.83 hp, ft = 25000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 377.5 Rrho = 3025000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8609  | 0.000                    | 0.8545  | 0.000                      | 0.8390  |
| 0.005                       | 0.1247  | 0.005                    | 0.1684  | 0.005                      | 0.3769  |
| 0.010                       | -0.1419 | 0.010                    | -0.0513 | 0.010                      | 0.1215  |
| 0.020                       | -0.3608 | 0.020                    | -0.2952 | 0.020                      | -0.1899 |
| 0.040                       | -0.5150 | 0.040                    | -0.4605 | 0.040                      | -0.3538 |
| 0.060                       | -0.4706 | 0.060                    | -0.5169 | 0.060                      | -0.4518 |
| 0.080                       | -0.6531 | 0.080                    | -0.5689 | 0.080                      | -0.4780 |
| 0.100                       | -0.6392 | 0.100                    | -0.5861 | 0.100                      | -0.5156 |
| 0.125                       | -0.5929 | 0.125                    | -0.5917 | 0.125                      | -0.4979 |
| 0.150                       | -0.6752 | 0.150                    | -0.6101 | 0.150                      | -0.5827 |
| 0.175                       | -0.6826 | 0.175                    | -0.6509 | 0.175                      | -0.6396 |
| 0.200                       | -0.7388 | 0.200                    | -0.6802 | 0.200                      | -0.6443 |
| 0.250                       | -0.8175 | 0.250                    | -0.7789 | 0.250                      | -0.6981 |
| 0.300                       | -0.8766 | 0.300                    | -0.8301 | 0.300                      | -0.7539 |
| 0.350                       | -0.8756 | 0.350                    | -0.8822 | 0.350                      | -0.8154 |
| 0.400                       | -0.8661 | 0.400                    | -0.9411 | 0.400                      | -0.8547 |
| 0.450                       | -0.7265 | 0.450                    | -0.9624 | 0.450                      | -0.9193 |
| 0.500                       | -0.7868 | 0.500                    | -1.0071 | 0.500                      | -0.9499 |
| 0.550                       | -0.7527 | 0.550                    | -0.4502 | 0.550                      | -0.5514 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3815 | 0.005 | 0.3739 | 0.005 | 0.3255 |
| 0.010 | 0.1275 | 0.010 | 0.1072 | 0.010 | 0.0063 |

Fight 35 Test point 3

Sweep, deg = 34.7 Mach = 0.81 hp, ft = 25000. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 356.9 Rrho = 2932000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7803  | 0.000                    | 0.7666  | 0.000                      | 0.7558  |
| 0.005                       | 0.0918  | 0.005                    | 0.1140  | 0.005                      | 0.3149  |
| 0.010                       | -0.1593 | 0.010                    | -0.0871 | 0.010                      | 0.0758  |
| 0.020                       | -0.3614 | 0.020                    | -0.3145 | 0.020                      | -0.2097 |
| 0.040                       | -0.4459 | 0.040                    | -0.4455 | 0.040                      | -0.3533 |
| 0.060                       | -0.5417 | 0.060                    | -0.4910 | 0.060                      | -0.4324 |
| 0.080                       | -0.5098 | 0.080                    | -0.5264 | 0.080                      | -0.4538 |
| 0.100                       | -0.5718 | 0.100                    | -0.5328 | 0.100                      | -0.4758 |
| 0.125                       | -0.5155 | 0.125                    | -0.5420 | 0.125                      | -0.5361 |
| 0.150                       | -0.5930 | 0.150                    | -0.5671 | 0.150                      | -0.5527 |
| 0.175                       | -0.5916 | 0.175                    | -0.6127 | 0.175                      | -0.5407 |
| 0.200                       | -0.6514 | 0.200                    | -0.6319 | 0.200                      | -0.5380 |
| 0.250                       | -0.6917 | 0.250                    | -0.7250 | 0.250                      | -0.6415 |
| 0.300                       | -0.6861 | 0.300                    | -0.7314 | 0.300                      | -0.6253 |
| 0.350                       | -0.6654 | 0.350                    | -0.7436 | 0.350                      | -0.5437 |
| 0.400                       | -0.6464 | 0.400                    | -0.6950 | 0.400                      | -0.5375 |
| 0.450                       | -0.5427 | 0.450                    | -0.4624 | 0.450                      | -0.4891 |
| 0.500                       | -0.4535 | 0.500                    | -0.4670 | 0.500                      | -0.4369 |
| 0.550                       | -0.3956 | 0.550                    | -0.4484 | 0.550                      | -0.4356 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3140 | 0.005 | 0.3128 | 0.005 | 0.2659  |
| 0.010 | 0.0719 | 0.010 | 0.0652 | 0.010 | -0.0272 |



Fight 35 Test point 4

Sweep, deg = 34.8 Mach = 0.80 hp, ft = 25500. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 345.6 Rnpu = 2858000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7796  | 0.000                    | 0.7640  | 0.000                      | 0.7556  |
| 0.005                       | 0.1239  | 0.005                    | 0.1400  | 0.005                      | 0.3412  |
| 0.010                       | -0.1229 | 0.010                    | -0.0574 | 0.010                      | 0.1071  |
| 0.020                       | -0.3232 | 0.020                    | -0.2840 | 0.020                      | -0.1682 |
| 0.040                       | -0.4248 | 0.040                    | -0.4111 | 0.040                      | -0.3195 |
| 0.060                       | -0.5106 | 0.060                    | -0.4513 | 0.060                      | -0.3988 |
| 0.080                       | -0.5139 | 0.080                    | -0.4906 | 0.080                      | -0.4266 |
| 0.100                       | -0.5205 | 0.100                    | -0.5175 | 0.100                      | -0.4550 |
| 0.125                       | -0.4981 | 0.125                    | -0.5134 | 0.125                      | -0.4822 |
| 0.150                       | -0.5737 | 0.150                    | -0.5617 | 0.150                      | -0.4862 |
| 0.175                       | -0.5628 | 0.175                    | -0.5830 | 0.175                      | -0.5203 |
| 0.200                       | -0.6277 | 0.200                    | -0.5963 | 0.200                      | -0.5398 |
| 0.250                       | -0.6664 | 0.250                    | -0.6835 | 0.250                      | -0.5428 |
| 0.300                       | -0.6487 | 0.300                    | -0.7073 | 0.300                      | -0.5732 |
| 0.350                       | -0.6479 | 0.350                    | -0.7220 | 0.350                      | -0.6061 |
| 0.400                       | -0.6102 | 0.400                    | -0.5178 | 0.400                      | -0.5064 |
| 0.450                       | -0.4747 | 0.450                    | -0.4959 | 0.450                      | -0.4867 |
| 0.500                       | -0.4566 | 0.500                    | -0.4800 | 0.500                      | -0.4363 |
| 0.550                       | -0.4006 | 0.550                    | -0.4488 | 0.550                      | -0.4367 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.2779 | 0.005 | 0.2823 | 0.005 | 0.2287  |
| 0.010 | 0.0291 | 0.010 | 0.0278 | 0.010 | -0.0765 |

Fight 35 Test point 5

Sweep, deg = 30.1 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 353.8 Rnpu = 2907000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8597  | 0.000                    | 0.8517  | 0.000                      | 0.8405  |
| 0.005                       | 0.1534  | 0.005                    | 0.1964  | 0.005                      | 0.4039  |
| 0.010                       | -0.1119 | 0.010                    | -0.0262 | 0.010                      | 0.1508  |
| 0.020                       | -0.3262 | 0.020                    | -0.2697 | 0.020                      | -0.1550 |
| 0.040                       | -0.4515 | 0.040                    | -0.4244 | 0.040                      | -0.3249 |
| 0.060                       | -0.5269 | 0.060                    | -0.4831 | 0.060                      | -0.4234 |
| 0.080                       | -0.5303 | 0.080                    | -0.5225 | 0.080                      | -0.4500 |
| 0.100                       | -0.5976 | 0.100                    | -0.5295 | 0.100                      | -0.4741 |
| 0.125                       | -0.5593 | 0.125                    | -0.5703 | 0.125                      | -0.5249 |
| 0.150                       | -0.6476 | 0.150                    | -0.5820 | 0.150                      | -0.5653 |
| 0.175                       | -0.6629 | 0.175                    | -0.6462 | 0.175                      | -0.5996 |
| 0.200                       | -0.7150 | 0.200                    | -0.6654 | 0.200                      | -0.5766 |
| 0.250                       | -0.7819 | 0.250                    | -0.7555 | 0.250                      | -0.6789 |
| 0.300                       | -0.7118 | 0.300                    | -0.8028 | 0.300                      | -0.7214 |
| 0.350                       | -0.7460 | 0.350                    | -0.8456 | 0.350                      | -0.7796 |
| 0.400                       | -0.7409 | 0.400                    | -0.8741 | 0.400                      | -0.8042 |
| 0.450                       | -0.7334 | 0.450                    | -0.8707 | 0.450                      | -0.8220 |
| 0.500                       | -0.5008 | 0.500                    | -0.4816 | 0.500                      | -0.3811 |
| 0.550                       | -0.4072 | 0.550                    | -0.4143 | 0.550                      | -0.4152 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3210 | 0.005 | 0.3272 | 0.005 | 0.2732  |
| 0.010 | 0.0561 | 0.010 | 0.0454 | 0.010 | -0.0655 |

Fight 35 Test point 6

Sweep, deg = 30.1 Mach = 0.80 hp, ft = 25500. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 345.9 Rnpu = 2853000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8570  | 0.000                    | 0.8565  | 0.000                      | 0.8413  |
| 0.005                       | 0.1929  | 0.005                    | 0.2348  | 0.005                      | 0.4324  |
| 0.010                       | -0.0724 | 0.010                    | 0.0171  | 0.010                      | 0.1901  |
| 0.020                       | -0.2865 | 0.020                    | -0.2257 | 0.020                      | -0.1120 |
| 0.040                       | -0.4180 | 0.040                    | -0.3813 | 0.040                      | -0.2840 |
| 0.060                       | -0.5046 | 0.060                    | -0.4435 | 0.060                      | -0.3843 |
| 0.080                       | -0.5222 | 0.080                    | -0.4874 | 0.080                      | -0.4202 |
| 0.100                       | -0.5715 | 0.100                    | -0.5132 | 0.100                      | -0.4526 |
| 0.125                       | -0.5264 | 0.125                    | -0.5023 | 0.125                      | -0.5011 |
| 0.150                       | -0.6176 | 0.150                    | -0.5641 | 0.150                      | -0.5405 |
| 0.175                       | -0.6364 | 0.175                    | -0.6116 | 0.175                      | -0.5426 |
| 0.200                       | -0.6642 | 0.200                    | -0.6291 | 0.200                      | -0.5380 |
| 0.250                       | -0.6813 | 0.250                    | -0.7447 | 0.250                      | -0.6636 |
| 0.300                       | -0.7480 | 0.300                    | -0.7804 | 0.300                      | -0.7007 |
| 0.350                       | -0.7357 | 0.350                    | -0.8185 | 0.350                      | -0.7383 |
| 0.400                       | -0.7233 | 0.400                    | -0.8647 | 0.400                      | -0.7734 |
| 0.450                       | -0.7244 | 0.450                    | -0.8523 | 0.450                      | -0.4699 |
| 0.500                       | -0.4633 | 0.500                    | -0.4321 | 0.500                      | -0.4076 |
| 0.550                       | -0.4065 | 0.550                    | -0.4309 | 0.550                      | -0.4350 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.2830 | 0.005 | 0.2898 | 0.005 | 0.2337  |
| 0.010         | 0.0164 | 0.010 | 0.0033 | 0.010 | -0.1156 |

Fight 35 Test point 7

Sweep, deg = 30.0 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 353.8 Rnpu = 2907000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8505  | 0.000                    | 0.8462  | 0.000                      | 0.8305  |
| 0.005                       | 0.0637  | 0.005                    | 0.1062  | 0.005                      | 0.3300  |
| 0.010                       | -0.2044 | 0.010                    | -0.1156 | 0.010                      | 0.0652  |
| 0.020                       | -0.4173 | 0.020                    | -0.3565 | 0.020                      | -0.2508 |
| 0.040                       | -0.5421 | 0.040                    | -0.5212 | 0.040                      | -0.4106 |
| 0.060                       | -0.5888 | 0.060                    | -0.5619 | 0.060                      | -0.5057 |
| 0.080                       | -0.7143 | 0.080                    | -0.6117 | 0.080                      | -0.5483 |
| 0.100                       | -0.6574 | 0.100                    | -0.6114 | 0.100                      | -0.5330 |
| 0.125                       | -0.6139 | 0.125                    | -0.6189 | 0.125                      | -0.5635 |
| 0.150                       | -0.6924 | 0.150                    | -0.6434 | 0.150                      | -0.6315 |
| 0.175                       | -0.6971 | 0.175                    | -0.6856 | 0.175                      | -0.6766 |
| 0.200                       | -0.7662 | 0.200                    | -0.7169 | 0.200                      | -0.6652 |
| 0.250                       | -0.6313 | 0.250                    | -0.8106 | 0.250                      | -0.7099 |
| 0.300                       | -0.8740 | 0.300                    | -0.8568 | 0.300                      | -0.7651 |
| 0.350                       | -0.7314 | 0.350                    | -0.9061 | 0.350                      | -0.8234 |
| 0.400                       | -0.7713 | 0.400                    | -0.9581 | 0.400                      | -0.8659 |
| 0.450                       | -0.7631 | 0.450                    | -0.9461 | 0.450                      | -0.9148 |
| 0.500                       | -0.5862 | 0.500                    | -0.6093 | 0.500                      | -0.4467 |
| 0.550                       | -0.4085 | 0.550                    | -0.4102 | 0.550                      | -0.3840 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3959 | 0.005 | 0.4012 | 0.005 | 0.3491 |
| 0.010 | 0.1473 | 0.010 | 0.1334 | 0.010 | 0.0317 |

Flight 35 Test point 8

Sweep, deg = 24.9 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 353.7 Rnpu = 2905000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9380  | 0.000                    | 0.9484  | 0.000                      | 0.9309  |
| 0.005                       | 0.2718  | 0.005                    | 0.3296  | 0.005                      | 0.5344  |
| 0.010                       | -0.0019 | 0.010                    | 0.0914  | 0.010                      | 0.2769  |
| 0.020                       | -0.2320 | 0.020                    | -0.1655 | 0.020                      | -0.0514 |
| 0.040                       | -0.4019 | 0.040                    | -0.3545 | 0.040                      | -0.2439 |
| 0.060                       | -0.4924 | 0.060                    | -0.4220 | 0.060                      | -0.3587 |
| 0.080                       | -0.5083 | 0.080                    | -0.4705 | 0.080                      | -0.3988 |
| 0.100                       | -0.5777 | 0.100                    | -0.4811 | 0.100                      | -0.4308 |
| 0.125                       | -0.5469 | 0.125                    | -0.5136 | 0.125                      | -0.4713 |
| 0.150                       | -0.6261 | 0.150                    | -0.5554 | 0.150                      | -0.5339 |
| 0.175                       | -0.6477 | 0.175                    | -0.6224 | 0.175                      | -0.5533 |
| 0.200                       | -0.7265 | 0.200                    | -0.6610 | 0.200                      | -0.5643 |
| 0.250                       | -0.8094 | 0.250                    | -0.7587 | 0.250                      | -0.6566 |
| 0.300                       | -0.8665 | 0.300                    | -0.8092 | 0.300                      | -0.7171 |
| 0.350                       | -0.8711 | 0.350                    | -0.8710 | 0.350                      | -0.7889 |
| 0.400                       | -0.8680 | 0.400                    | -0.9434 | 0.400                      | -0.8312 |
| 0.450                       | -0.7349 | 0.450                    | -0.9550 | 0.450                      | -0.8917 |
| 0.500                       | -0.8196 | 0.500                    | -1.0029 | 0.500                      | -0.9154 |
| 0.550                       | -0.4220 | 0.550                    | -0.7684 | 0.550                      | -0.7282 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3000 | 0.005 | 0.2977  | 0.005 | 0.2337  |
| 0.010 | 0.0086 | 0.010 | -0.0196 | 0.010 | -0.1564 |

Flight 35 Test point 9

Sweep, deg = 24.9 Mach = 0.81 hp, ft = 25000. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 355.3 Rnpu = 2914000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9378  | 0.000                    | 0.9444  | 0.000                      | 0.9317  |
| 0.005                       | 0.1299  | 0.005                    | 0.1985  | 0.005                      | 0.4309  |
| 0.010                       | -0.1531 | 0.010                    | -0.0517 | 0.010                      | 0.1497  |
| 0.020                       | -0.3768 | 0.020                    | -0.3032 | 0.020                      | -0.1911 |
| 0.040                       | -0.5660 | 0.040                    | -0.4963 | 0.040                      | -0.3736 |
| 0.060                       | -0.5698 | 0.060                    | -0.5526 | 0.060                      | -0.4838 |
| 0.080                       | -0.6818 | 0.080                    | -0.6116 | 0.080                      | -0.5197 |
| 0.100                       | -0.6748 | 0.100                    | -0.6316 | 0.100                      | -0.5201 |
| 0.125                       | -0.6377 | 0.125                    | -0.6191 | 0.125                      | -0.5357 |
| 0.150                       | -0.7184 | 0.150                    | -0.6351 | 0.150                      | -0.6147 |
| 0.175                       | -0.7316 | 0.175                    | -0.6661 | 0.175                      | -0.6614 |
| 0.200                       | -0.8094 | 0.200                    | -0.7013 | 0.200                      | -0.6624 |
| 0.250                       | -0.8922 | 0.250                    | -0.8326 | 0.250                      | -0.7173 |
| 0.300                       | -0.9601 | 0.300                    | -0.8938 | 0.300                      | -0.7904 |
| 0.350                       | -0.9401 | 0.350                    | -0.9387 | 0.350                      | -0.8598 |
| 0.400                       | -0.9573 | 0.400                    | -1.0099 | 0.400                      | -0.9016 |
| 0.450                       | -0.9758 | 0.450                    | -1.0297 | 0.450                      | -0.9636 |
| 0.500                       | -1.0678 | 0.500                    | -1.0616 | 0.500                      | -0.9883 |
| 0.550                       | -0.4471 | 0.550                    | -0.4473 | 0.550                      | -0.7238 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4329 | 0.005 | 0.4278 | 0.005 | 0.3669 |
| 0.010 | 0.1657 | 0.010 | 0.1354 | 0.010 | 0.0128 |

Flight 35 Test point 10

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 350.4 Rnpu = 2894000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0028  | 0.000                    | 1.0233  | 0.000                      | 0.9997  |
| 0.005                       | 0.3782  | 0.005                    | 0.4501  | 0.005                      | 0.6479  |
| 0.010                       | 0.0967  | 0.010                    | 0.2013  | 0.010                      | 0.3898  |
| 0.020                       | -0.1418 | 0.020                    | -0.0656 | 0.020                      | 0.0519  |
| 0.040                       | -0.3440 | 0.040                    | -0.2724 | 0.040                      | -0.1551 |
| 0.060                       | -0.4432 | 0.060                    | -0.3541 | 0.060                      | -0.2849 |
| 0.080                       | -0.4917 | 0.080                    | -0.4162 | 0.080                      | -0.3398 |
| 0.100                       | -0.5306 | 0.100                    | -0.4470 | 0.100                      | -0.3779 |
| 0.125                       | -0.5207 | 0.125                    | -0.4583 | 0.125                      | -0.4155 |
| 0.150                       | -0.6038 | 0.150                    | -0.5202 | 0.150                      | -0.4686 |
| 0.175                       | -0.6386 | 0.175                    | -0.5892 | 0.175                      | -0.5087 |
| 0.200                       | -0.7156 | 0.200                    | -0.6282 | 0.200                      | -0.5335 |
| 0.250                       | -0.8009 | 0.250                    | -0.7390 | 0.250                      | -0.6388 |
| 0.300                       | -0.8493 | 0.300                    | -0.7909 | 0.300                      | -0.7081 |
| 0.350                       | -0.8779 | 0.350                    | -0.8547 | 0.350                      | -0.7652 |
| 0.400                       | -0.8954 | 0.400                    | -0.9393 | 0.400                      | -0.8039 |
| 0.450                       | -0.9213 | 0.450                    | -0.9589 | 0.450                      | -0.8808 |
| 0.500                       | -0.9949 | 0.500                    | -1.0091 | 0.500                      | -0.9001 |
| 0.550                       | -0.4327 | 0.550                    | -1.0448 | 0.550                      | -0.9160 |

Lower surface

|       |         |       |         |       |         |
|-------|---------|-------|---------|-------|---------|
| 0.005 | 0.2675  | 0.005 | 0.2696  | 0.005 | 0.2000  |
| 0.010 | -0.0430 | 0.010 | -0.0765 | 0.010 | -0.2268 |

Fight 35 Test point 11

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 353.8 Rnpu = 2910000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0607  | 0.000                    | 1.0873  | 0.000                      | 1.0639  |
| 0.005                       | 0.4044  | 0.005                    | 0.5001  | 0.005                      | 0.7029  |
| 0.010                       | 0.1204  | 0.010                    | 0.2445  | 0.010                      | 0.4422  |
| 0.020                       | -0.1218 | 0.020                    | -0.0313 | 0.020                      | 0.0944  |
| 0.040                       | -0.3371 | 0.040                    | -0.2443 | 0.040                      | -0.1216 |
| 0.060                       | -0.4318 | 0.060                    | -0.3283 | 0.060                      | -0.2510 |
| 0.080                       | -0.4896 | 0.080                    | -0.3934 | 0.080                      | -0.3062 |
| 0.100                       | -0.5425 | 0.100                    | -0.4294 | 0.100                      | -0.3474 |
| 0.125                       | -0.5359 | 0.125                    | -0.4457 | 0.125                      | -0.3850 |
| 0.150                       | -0.6066 | 0.150                    | -0.5022 | 0.150                      | -0.4388 |
| 0.175                       | -0.6443 | 0.175                    | -0.5681 | 0.175                      | -0.4817 |
| 0.200                       | -0.7278 | 0.200                    | -0.6116 | 0.200                      | -0.5174 |
| 0.250                       | -0.8143 | 0.250                    | -0.7295 | 0.250                      | -0.6003 |
| 0.300                       | -0.9061 | 0.300                    | -0.7996 | 0.300                      | -0.6805 |
| 0.350                       | -0.9098 | 0.350                    | -0.8586 | 0.350                      | -0.7556 |
| 0.400                       | -0.9313 | 0.400                    | -0.9392 | 0.400                      | -0.7910 |
| 0.450                       | -0.9534 | 0.450                    | -0.9664 | 0.450                      | -0.8529 |
| 0.500                       | -1.0514 | 0.500                    | -1.0176 | 0.500                      | -0.8837 |
| 0.550                       | -0.5104 | 0.550                    | -1.0602 | 0.550                      | -0.8930 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3261 | 0.005 | 0.3195  | 0.005 | 0.2461  |
| 0.010 | 0.0145 | 0.010 | -0.0402 | 0.010 | -0.1935 |



Flight 35 Test point 12

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 24900. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 355.0 Rnpu = 2926000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0083  | 0.000                    | 1.0283  | 0.000                      | 1.0087  |
| 0.005                       | 0.2185  | 0.005                    | -0.3045 | 0.005                      | 0.5369  |
| 0.010                       | -0.0708 | 0.010                    | 0.0447  | 0.010                      | 0.2516  |
| 0.020                       | -0.3037 | 0.020                    | -0.2195 | 0.020                      | -0.1001 |
| 0.040                       | -0.4986 | 0.040                    | -0.4282 | 0.040                      | -0.3017 |
| 0.060                       | -0.5352 | 0.060                    | -0.4971 | 0.060                      | -0.4229 |
| 0.080                       | -0.6483 | 0.080                    | -0.5528 | 0.080                      | -0.4627 |
| 0.100                       | -0.6380 | 0.100                    | -0.5872 | 0.100                      | -0.4843 |
| 0.125                       | -0.6306 | 0.125                    | -0.5814 | 0.125                      | -0.5038 |
| 0.150                       | -0.7157 | 0.150                    | -0.6292 | 0.150                      | -0.5724 |
| 0.175                       | -0.7252 | 0.175                    | -0.6536 | 0.175                      | -0.6292 |
| 0.200                       | -0.8121 | 0.200                    | -0.6984 | 0.200                      | -0.6386 |
| 0.250                       | -0.8958 | 0.250                    | -0.8191 | 0.250                      | -0.7022 |
| 0.300                       | -0.9430 | 0.300                    | -0.8825 | 0.300                      | -0.7882 |
| 0.350                       | -0.9771 | 0.350                    | -0.9393 | 0.350                      | -0.8462 |
| 0.400                       | -0.9808 | 0.400                    | -1.0174 | 0.400                      | -0.8905 |
| 0.450                       | -0.9910 | 0.450                    | -1.0402 | 0.450                      | -0.9506 |
| 0.500                       | -1.0625 | 0.500                    | -1.0653 | 0.500                      | -0.9865 |
| 0.550                       | -0.4698 | 0.550                    | -0.4613 | 0.550                      | -0.9585 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4334 | 0.005 | 0.4276 | 0.005 | 0.3593  |
| 0.010 | 0.1481 | 0.010 | 0.1056 | 0.010 | -0.0328 |

Fight 35 Test point 13

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 24900. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 312.1 Rnpu = 2724000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9904  | 0.000                    | 1.0151  | 0.000                      | 0.9981  |
| 0.005                       | 0.1862  | 0.005                    | 0.2644  | 0.005                      | 0.5134  |
| 0.010                       | -0.1068 | 0.010                    | 0.0019  | 0.010                      | 0.2258  |
| 0.020                       | -0.3418 | 0.020                    | -0.2660 | 0.020                      | -0.1310 |
| 0.040                       | -0.5278 | 0.040                    | -0.4591 | 0.040                      | -0.3259 |
| 0.060                       | -0.6058 | 0.060                    | -0.5211 | 0.060                      | -0.4369 |
| 0.080                       | -0.6383 | 0.080                    | -0.5669 | 0.080                      | -0.4711 |
| 0.100                       | -0.6583 | 0.100                    | -0.5794 | 0.100                      | -0.5022 |
| 0.125                       | -0.5977 | 0.125                    | -0.5903 | 0.125                      | -0.5286 |
| 0.150                       | -0.7272 | 0.150                    | -0.6480 | 0.150                      | -0.5695 |
| 0.175                       | -0.7340 | 0.175                    | -0.7125 | 0.175                      | -0.6000 |
| 0.200                       | -0.8187 | 0.200                    | -0.7296 | 0.200                      | -0.6191 |
| 0.250                       | -0.8843 | 0.250                    | -0.8361 | 0.250                      | -0.7299 |
| 0.300                       | -0.9264 | 0.300                    | -0.8902 | 0.300                      | -0.7237 |
| 0.350                       | -0.7609 | 0.350                    | -0.9266 | 0.350                      | -0.7374 |
| 0.400                       | -0.7369 | 0.400                    | -0.9717 | 0.400                      | -0.6565 |
| 0.450                       | -0.5442 | 0.450                    | -0.5106 | 0.450                      | -0.5865 |
| 0.500                       | -0.5296 | 0.500                    | -0.5426 | 0.500                      | -0.5397 |
| 0.550                       | -0.4552 | 0.550                    | -0.5307 | 0.550                      | -0.5002 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3827 | 0.005 | 0.3831 | 0.005 | 0.3051  |
| 0.010 | 0.0911 | 0.010 | 0.0560 | 0.010 | -0.0953 |

Fight 35 Test point 14

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 25000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 311.8 Rnpu = 2715000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0454  | 0.000                    | 1.0736  | 0.000                      | 1.0558  |
| 0.005                       | 0.2325  | 0.005                    | 0.3373  | 0.005                      | 0.5945  |
| 0.010                       | -0.0624 | 0.010                    | 0.0622  | 0.010                      | 0.3016  |
| 0.020                       | -0.3061 | 0.020                    | -0.2163 | 0.020                      | -0.0663 |
| 0.040                       | -0.5096 | 0.040                    | -0.4140 | 0.040                      | -0.2724 |
| 0.060                       | -0.5928 | 0.060                    | -0.4834 | 0.060                      | -0.3902 |
| 0.080                       | -0.6362 | 0.080                    | -0.5330 | 0.080                      | -0.4293 |
| 0.100                       | -0.6758 | 0.100                    | -0.5612 | 0.100                      | -0.4572 |
| 0.125                       | -0.6246 | 0.125                    | -0.5700 | 0.125                      | -0.4849 |
| 0.150                       | -0.7358 | 0.150                    | -0.6372 | 0.150                      | -0.5384 |
| 0.175                       | -0.7470 | 0.175                    | -0.6949 | 0.175                      | -0.5745 |
| 0.200                       | -0.8372 | 0.200                    | -0.7199 | 0.200                      | -0.5984 |
| 0.250                       | -0.9079 | 0.250                    | -0.8283 | 0.250                      | -0.6963 |
| 0.300                       | -0.9722 | 0.300                    | -0.8860 | 0.300                      | -0.6880 |
| 0.350                       | -0.9507 | 0.350                    | -0.9378 | 0.350                      | -0.7722 |
| 0.400                       | -0.6913 | 0.400                    | -0.9910 | 0.400                      | -0.7779 |
| 0.450                       | -0.5012 | 0.450                    | -0.9142 | 0.450                      | -0.5852 |
| 0.500                       | -0.5020 | 0.500                    | -0.4819 | 0.500                      | -0.5373 |
| 0.550                       | -0.4348 | 0.550                    | -0.5075 | 0.550                      | -0.4861 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4131 | 0.005 | 0.4028 | 0.005 | 0.3115  |
| 0.010 | 0.1127 | 0.010 | 0.0603 | 0.010 | -0.1143 |

Fight 35 Test point 15

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 24800. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 312.1 Rnpu = 2725000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9900  | 0.000                    | 1.0160  | 0.000                      | 0.9981  |
| 0.005                       | 0.2030  | 0.005                    | 0.2854  | 0.005                      | 0.5310  |
| 0.010                       | -0.0892 | 0.010                    | 0.0207  | 0.010                      | 0.2463  |
| 0.020                       | -0.3239 | 0.020                    | -0.2466 | 0.020                      | -0.1100 |
| 0.040                       | -0.5108 | 0.040                    | -0.4452 | 0.040                      | -0.3023 |
| 0.060                       | -0.5897 | 0.060                    | -0.5091 | 0.060                      | -0.4155 |
| 0.080                       | -0.6258 | 0.080                    | -0.5525 | 0.080                      | -0.4566 |
| 0.100                       | -0.6679 | 0.100                    | -0.5704 | 0.100                      | -0.4860 |
| 0.125                       | -0.6175 | 0.125                    | -0.5753 | 0.125                      | -0.5120 |
| 0.150                       | -0.7202 | 0.150                    | -0.6396 | 0.150                      | -0.5526 |
| 0.175                       | -0.7380 | 0.175                    | -0.6967 | 0.175                      | -0.5880 |
| 0.200                       | -0.7915 | 0.200                    | -0.7065 | 0.200                      | -0.6074 |
| 0.250                       | -0.8686 | 0.250                    | -0.8327 | 0.250                      | -0.7029 |
| 0.300                       | -0.8989 | 0.300                    | -0.8695 | 0.300                      | -0.6937 |
| 0.350                       | -0.7678 | 0.350                    | -0.9062 | 0.350                      | -0.7598 |
| 0.400                       | -0.7344 | 0.400                    | -0.9334 | 0.400                      | -0.6331 |
| 0.450                       | -0.5489 | 0.450                    | -0.5384 | 0.450                      | -0.5919 |
| 0.500                       | -0.5269 | 0.500                    | -0.5663 | 0.500                      | -0.5379 |
| 0.550                       | -0.4533 | 0.550                    | -0.5396 | 0.550                      | -0.5003 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3640 | 0.005 | 0.3643 | 0.005 | 0.2818  |
| 0.010 | 0.0685 | 0.010 | 0.0329 | 0.010 | -0.1230 |

Flight 35 Test point 16

Sweep, deg = 24.9 Mach = 0.75 hp, ft = 25000. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 309.5 Rnpu = 2709000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9173  | 0.000                    | 0.9304  | 0.000                      | 0.9160  |
| 0.005                       | 0.0275  | 0.005                    | 0.0974  | 0.005                      | 0.3599  |
| 0.010                       | -0.2564 | 0.010                    | -0.1605 | 0.010                      | 0.0643  |
| 0.020                       | -0.4760 | 0.020                    | -0.4119 | 0.020                      | -0.2779 |
| 0.040                       | -0.6248 | 0.040                    | -0.5801 | 0.040                      | -0.4476 |
| 0.060                       | -0.6833 | 0.060                    | -0.6209 | 0.060                      | -0.5371 |
| 0.080                       | -0.7120 | 0.080                    | -0.6491 | 0.080                      | -0.5588 |
| 0.100                       | -0.7185 | 0.100                    | -0.6590 | 0.100                      | -0.5720 |
| 0.125                       | -0.6303 | 0.125                    | -0.6418 | 0.125                      | -0.5964 |
| 0.150                       | -0.7585 | 0.150                    | -0.6929 | 0.150                      | -0.6215 |
| 0.175                       | -0.7574 | 0.175                    | -0.7468 | 0.175                      | -0.6435 |
| 0.200                       | -0.7835 | 0.200                    | -0.7266 | 0.200                      | -0.6490 |
| 0.250                       | -0.8351 | 0.250                    | -0.8592 | 0.250                      | -0.7433 |
| 0.300                       | -0.8250 | 0.300                    | -0.8848 | 0.300                      | -0.6889 |
| 0.350                       | -0.7515 | 0.350                    | -0.8895 | 0.350                      | -0.6679 |
| 0.400                       | -0.6445 | 0.400                    | -0.6133 | 0.400                      | -0.6103 |
| 0.450                       | -0.5466 | 0.450                    | -0.5876 | 0.450                      | -0.5842 |
| 0.500                       | -0.5192 | 0.500                    | -0.5604 | 0.500                      | -0.5219 |
| 0.550                       | -0.4420 | 0.550                    | -0.5271 | 0.550                      | -0.4945 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4423 | 0.005 | 0.4505 | 0.005 | 0.3858 |
| 0.010 | 0.1781 | 0.010 | 0.1604 | 0.010 | 0.0318 |

Flight 35 Test point 17

Sweep, deg = 24.6 Mach = 0.75 hp, ft = 25400. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 302.7 Rnpu = 2664000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9280  | 0.000                    | 0.9433  | 0.000                      | 0.9257  |
| 0.005                       | 0.1841  | 0.005                    | 0.2527  | 0.005                      | 0.4875  |
| 0.010                       | -0.0908 | 0.010                    | 0.0056  | 0.010                      | 0.2163  |
| 0.020                       | -0.3159 | 0.020                    | -0.2459 | 0.020                      | -0.1133 |
| 0.040                       | -0.4756 | 0.040                    | -0.4234 | 0.040                      | -0.2960 |
| 0.060                       | -0.5439 | 0.060                    | -0.4770 | 0.060                      | -0.3964 |
| 0.080                       | -0.5862 | 0.080                    | -0.5175 | 0.080                      | -0.4284 |
| 0.100                       | -0.5941 | 0.100                    | -0.5392 | 0.100                      | -0.4548 |
| 0.125                       | -0.5592 | 0.125                    | -0.5469 | 0.125                      | -0.4760 |
| 0.150                       | -0.6511 | 0.150                    | -0.5970 | 0.150                      | -0.5144 |
| 0.175                       | -0.6410 | 0.175                    | -0.6350 | 0.175                      | -0.5471 |
| 0.200                       | -0.6976 | 0.200                    | -0.6601 | 0.200                      | -0.5461 |
| 0.250                       | -0.7300 | 0.250                    | -0.7476 | 0.250                      | -0.5973 |
| 0.300                       | -0.7261 | 0.300                    | -0.7570 | 0.300                      | -0.6052 |
| 0.350                       | -0.7023 | 0.350                    | -0.6728 | 0.350                      | -0.6138 |
| 0.400                       | -0.5988 | 0.400                    | -0.6628 | 0.400                      | -0.5779 |
| 0.450                       | -0.5264 | 0.450                    | -0.5754 | 0.450                      | -0.5521 |
| 0.500                       | -0.5039 | 0.500                    | -0.5496 | 0.500                      | -0.5010 |
| 0.550                       | -0.4322 | 0.550                    | -0.5141 | 0.550                      | -0.4785 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.3134 | 0.005 | 0.3189 | 0.005 | 0.2378  |
| 0.010         | 0.0268 | 0.010 | 0.0019 | 0.010 | -0.1524 |

Fight 35 Test point 18

Sweep, deg = 30.2 Mach = 0.75 hp, ft = 25000. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 310.1 Rnpu = 2715000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 290<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8279  | 0.000                    | 0.8228  | 0.000                      | 0.8138  |
| 0.005                       | -0.0326 | 0.005                    | 0.0080  | 0.005                      | 0.2646  |
| 0.010                       | -0.3035 | 0.010                    | -0.2159 | 0.010                      | -0.0135 |
| 0.020                       | -0.4970 | 0.020                    | -0.4482 | 0.020                      | -0.3196 |
| 0.040                       | -0.5976 | 0.040                    | -0.5685 | 0.040                      | -0.4505 |
| 0.060                       | -0.6585 | 0.060                    | -0.5948 | 0.060                      | -0.5176 |
| 0.080                       | -0.6600 | 0.080                    | -0.6193 | 0.080                      | -0.5341 |
| 0.100                       | -0.6653 | 0.100                    | -0.6179 | 0.100                      | -0.5498 |
| 0.125                       | -0.6003 | 0.125                    | -0.6160 | 0.125                      | -0.5545 |
| 0.150                       | -0.6786 | 0.150                    | -0.6527 | 0.150                      | -0.5628 |
| 0.175                       | -0.6663 | 0.175                    | -0.6733 | 0.175                      | -0.5936 |
| 0.200                       | -0.7248 | 0.200                    | -0.6884 | 0.200                      | -0.5899 |
| 0.250                       | -0.6916 | 0.250                    | -0.7520 | 0.250                      | -0.6137 |
| 0.300                       | -0.6937 | 0.300                    | -0.6899 | 0.300                      | -0.6009 |
| 0.350                       | -0.6482 | 0.350                    | -0.6411 | 0.350                      | -0.5904 |
| 0.400                       | -0.5755 | 0.400                    | -0.6181 | 0.400                      | -0.5552 |
| 0.450                       | -0.5039 | 0.450                    | -0.5449 | 0.450                      | -0.5208 |
| 0.500                       | -0.4802 | 0.500                    | -0.5129 | 0.500                      | -0.4721 |
| 0.550                       | -0.4166 | 0.550                    | -0.4857 | 0.550                      | -0.4681 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4234 | 0.005 | 0.4242 | 0.005 | 0.3663 |
| 0.010 | 0.1856 | 0.010 | 0.1711 | 0.010 | 0.0586 |

Fight 35 Test point 19

Sweep, deg = 30.5 Mach = 0.75 hp, ft = 25200. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 307.4 Rnpu = 2689000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8382  | 0.000                    | 0.8384  | 0.000                      | 0.8268  |
| 0.005                       | 0.0612  | 0.005                    | 0.1085  | 0.005                      | 0.3475  |
| 0.010                       | -0.2015 | 0.010                    | -0.1117 | 0.010                      | 0.0869  |
| 0.020                       | -0.4014 | 0.020                    | -0.3473 | 0.020                      | -0.2156 |
| 0.040                       | -0.5171 | 0.040                    | -0.4715 | 0.040                      | -0.3598 |
| 0.060                       | -0.5655 | 0.060                    | -0.5105 | 0.060                      | -0.4325 |
| 0.080                       | -0.5820 | 0.080                    | -0.5411 | 0.080                      | -0.4585 |
| 0.100                       | -0.5964 | 0.100                    | -0.5489 | 0.100                      | -0.4758 |
| 0.125                       | -0.5479 | 0.125                    | -0.5225 | 0.125                      | -0.4917 |
| 0.150                       | -0.6245 | 0.150                    | -0.5906 | 0.150                      | -0.5085 |
| 0.175                       | -0.6117 | 0.175                    | -0.6128 | 0.175                      | -0.5356 |
| 0.200                       | -0.6683 | 0.200                    | -0.6304 | 0.200                      | -0.5347 |
| 0.250                       | -0.6634 | 0.250                    | -0.6907 | 0.250                      | -0.5663 |
| 0.300                       | -0.6510 | 0.300                    | -0.6679 | 0.300                      | -0.5654 |
| 0.350                       | -0.6136 | 0.350                    | -0.6115 | 0.350                      | -0.5595 |
| 0.400                       | -0.5555 | 0.400                    | -0.5953 | 0.400                      | -0.5311 |
| 0.450                       | -0.4888 | 0.450                    | -0.5245 | 0.450                      | -0.5031 |
| 0.500                       | -0.4702 | 0.500                    | -0.4991 | 0.500                      | -0.4649 |
| 0.550                       | -0.4081 | 0.550                    | -0.4738 | 0.550                      | -0.4583 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3465 | 0.005 | 0.3536 | 0.005 | 0.2862  |
| 0.010 | 0.0907 | 0.010 | 0.0882 | 0.010 | -0.0453 |



Fight 35 Test point 20

Sweep, deg = 34.9 Mach = 0.75 hp, ft = 25000. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 310.9 Rnpu = 2716000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7296  | 0.000                    | 0.7084  | 0.000                      | 0.7074  |
| 0.005                       | -0.1656 | 0.005                    | -0.1413 | 0.005                      | 0.1184  |
| 0.010                       | -0.4207 | 0.010                    | -0.3415 | 0.010                      | -0.1426 |
| 0.020                       | -0.5883 | 0.020                    | -0.5465 | 0.020                      | -0.4225 |
| 0.040                       | -0.6328 | 0.040                    | -0.6271 | 0.040                      | -0.5187 |
| 0.060                       | -0.6735 | 0.060                    | -0.6260 | 0.060                      | -0.5554 |
| 0.080                       | -0.6608 | 0.080                    | -0.6352 | 0.080                      | -0.5588 |
| 0.100                       | -0.6509 | 0.100                    | -0.6241 | 0.100                      | -0.5630 |
| 0.125                       | -0.5755 | 0.125                    | -0.6088 | 0.125                      | -0.5548 |
| 0.150                       | -0.6388 | 0.150                    | -0.6280 | 0.150                      | -0.5566 |
| 0.175                       | -0.6289 | 0.175                    | -0.6326 | 0.175                      | -0.5742 |
| 0.200                       | -0.6615 | 0.200                    | -0.6376 | 0.200                      | -0.5588 |
| 0.250                       | -0.6473 | 0.250                    | -0.6767 | 0.250                      | -0.5676 |
| 0.300                       | -0.6294 | 0.300                    | -0.6372 | 0.300                      | -0.5489 |
| 0.350                       | -0.5838 | 0.350                    | -0.5827 | 0.350                      | -0.5372 |
| 0.400                       | -0.5275 | 0.400                    | -0.5595 | 0.400                      | -0.5072 |
| 0.450                       | -0.4684 | 0.450                    | -0.4984 | 0.450                      | -0.4816 |
| 0.500                       | -0.4516 | 0.500                    | -0.4744 | 0.500                      | -0.4410 |
| 0.550                       | -0.3890 | 0.550                    | -0.4502 | 0.550                      | -0.4427 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.4483 | 0.005 | 0.4446 | 0.005 | 0.3994 |
| 0.010         | 0.2369 | 0.010 | 0.2298 | 0.010 | 0.1429 |

Fight 35 Test point 21

Sweep, deg = 35.0 Mach = 0.75 hp, ft = 25300. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 306.5 Rnpu = 2678000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7578  | 0.000                    | 0.7475  | 0.000                      | 0.7392  |
| 0.005                       | 0.0671  | 0.005                    | 0.0969  | 0.005                      | 0.3193  |
| 0.010                       | -0.1746 | 0.010                    | -0.0956 | 0.010                      | 0.0841  |
| 0.020                       | -0.3604 | 0.020                    | -0.3057 | 0.020                      | -0.1794 |
| 0.040                       | -0.4378 | 0.040                    | -0.4091 | 0.040                      | -0.3120 |
| 0.060                       | -0.4787 | 0.060                    | -0.4369 | 0.060                      | -0.3730 |
| 0.080                       | -0.5026 | 0.080                    | -0.4637 | 0.080                      | -0.3957 |
| 0.100                       | -0.5093 | 0.100                    | -0.4685 | 0.100                      | -0.4113 |
| 0.125                       | -0.4685 | 0.125                    | -0.4739 | 0.125                      | -0.4192 |
| 0.150                       | -0.5297 | 0.150                    | -0.4993 | 0.150                      | -0.4339 |
| 0.175                       | -0.5244 | 0.175                    | -0.5141 | 0.175                      | -0.4558 |
| 0.200                       | -0.5598 | 0.200                    | -0.5296 | 0.200                      | -0.4512 |
| 0.250                       | -0.5639 | 0.250                    | -0.5707 | 0.250                      | -0.4782 |
| 0.300                       | -0.5487 | 0.300                    | -0.5517 | 0.300                      | -0.4745 |
| 0.350                       | -0.5214 | 0.350                    | -0.5146 | 0.350                      | -0.4795 |
| 0.400                       | -0.4803 | 0.400                    | -0.5046 | 0.400                      | -0.4585 |
| 0.450                       | -0.4272 | 0.450                    | -0.4508 | 0.450                      | -0.4413 |
| 0.500                       | -0.4164 | 0.500                    | -0.4372 | 0.500                      | -0.4095 |
| 0.550                       | -0.3631 | 0.550                    | -0.4256 | 0.550                      | -0.4208 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.2850 | 0.005 | 0.2944 | 0.005 | 0.2228  |
| 0.010 | 0.0476 | 0.010 | 0.0437 | 0.010 | -0.0748 |

Fight 35 Test point 22

Sweep, deg = 35.0 Mach = 0.76 hp, ft = 25200. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 311.1 Rnpu = 2709000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7447  | 0.000                    | 0.7249  | 0.000                      | 0.7206  |
| 0.005                       | -0.0839 | 0.005                    | -0.0646 | 0.005                      | 0.1852  |
| 0.010                       | -0.3397 | 0.010                    | -0.2624 | 0.010                      | -0.0697 |
| 0.020                       | -0.5119 | 0.020                    | -0.4732 | 0.020                      | -0.3428 |
| 0.040                       | -0.5760 | 0.040                    | -0.5601 | 0.040                      | -0.4555 |
| 0.060                       | -0.6006 | 0.060                    | -0.5682 | 0.060                      | -0.5069 |
| 0.080                       | -0.6105 | 0.080                    | -0.5843 | 0.080                      | -0.5097 |
| 0.100                       | -0.6068 | 0.100                    | -0.5754 | 0.100                      | -0.5152 |
| 0.125                       | -0.5441 | 0.125                    | -0.5714 | 0.125                      | -0.5130 |
| 0.150                       | -0.6135 | 0.150                    | -0.5983 | 0.150                      | -0.5207 |
| 0.175                       | -0.6003 | 0.175                    | -0.6069 | 0.175                      | -0.5448 |
| 0.200                       | -0.6342 | 0.200                    | -0.6080 | 0.200                      | -0.5292 |
| 0.250                       | -0.6273 | 0.250                    | -0.6467 | 0.250                      | -0.5507 |
| 0.300                       | -0.6087 | 0.300                    | -0.6132 | 0.300                      | -0.5300 |
| 0.350                       | -0.5718 | 0.350                    | -0.5678 | 0.350                      | -0.5232 |
| 0.400                       | -0.5203 | 0.400                    | -0.5488 | 0.400                      | -0.4960 |
| 0.450                       | -0.4604 | 0.450                    | -0.4874 | 0.450                      | -0.4725 |
| 0.500                       | -0.4454 | 0.500                    | -0.4658 | 0.500                      | -0.4328 |
| 0.550                       | -0.3841 | 0.550                    | -0.4421 | 0.550                      | -0.4408 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4045 | 0.005 | 0.4004 | 0.005 | 0.3492 |
| 0.010 | 0.1853 | 0.010 | 0.1774 | 0.010 | 0.0810 |

Flight 35 Test point 23

Sweep, deg = 35.0 Mach = 0.70 hp, ft = 24900. Angle of attack, deg = 2.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 270.1 Rnpu = 2514000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.6767  | 0.000                    | 0.6573  | 0.000                      | 0.6663  |
| 0.005                       | -0.3810 | 0.005                    | -0.3424 | 0.005                      | -0.0355 |
| 0.010                       | -0.6332 | 0.010                    | -0.5411 | 0.010                      | -0.3164 |
| 0.020                       | -0.7396 | 0.020                    | -0.7085 | 0.020                      | -0.5795 |
| 0.040                       | -0.7451 | 0.040                    | -0.7335 | 0.040                      | -0.6261 |
| 0.060                       | -0.7332 | 0.060                    | -0.6989 | 0.060                      | -0.6325 |
| 0.080                       | -0.7149 | 0.080                    | -0.6815 | 0.080                      | -0.6137 |
| 0.100                       | -0.6892 | 0.100                    | -0.6542 | 0.100                      | -0.5983 |
| 0.125                       | -0.5989 | 0.125                    | -0.6339 | 0.125                      | -0.5750 |
| 0.150                       | -0.6567 | 0.150                    | -0.6414 | 0.150                      | -0.5710 |
| 0.175                       | -0.6275 | 0.175                    | -0.6362 | 0.175                      | -0.5729 |
| 0.200                       | -0.6580 | 0.200                    | -0.6342 | 0.200                      | -0.5542 |
| 0.250                       | -0.6358 | 0.250                    | -0.6489 | 0.250                      | -0.5618 |
| 0.300                       | -0.6044 | 0.300                    | -0.6091 | 0.300                      | -0.5335 |
| 0.350                       | -0.5578 | 0.350                    | -0.5569 | 0.350                      | -0.5221 |
| 0.400                       | -0.5062 | 0.400                    | -0.5398 | 0.400                      | -0.4970 |
| 0.450                       | -0.4494 | 0.450                    | -0.4806 | 0.450                      | -0.4675 |
| 0.500                       | -0.4404 | 0.500                    | -0.4581 | 0.500                      | -0.4338 |
| 0.550                       | -0.3755 | 0.550                    | -0.4395 | 0.550                      | -0.4344 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5327 | 0.005 | 0.5315 | 0.005 | 0.4859 |
| 0.010 | 0.3396 | 0.010 | 0.3386 | 0.010 | 0.2519 |

Fight 35 Test point 24

Sweep, deg = 35.0 Mach = 0.70 hp, ft = 25100. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 270.1 Rnpu = 2507000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7469  | 0.000                    | 0.7396  | 0.000                      | 0.7259  |
| 0.005                       | -0.0147 | 0.005                    | 0.0242  | 0.005                      | 0.2665  |
| 0.010                       | -0.2572 | 0.010                    | -0.1655 | 0.010                      | 0.0284  |
| 0.020                       | -0.4181 | 0.020                    | -0.3644 | 0.020                      | -0.2257 |
| 0.040                       | -0.4826 | 0.040                    | -0.4418 | 0.040                      | -0.3439 |
| 0.060                       | -0.4987 | 0.060                    | -0.4582 | 0.060                      | -0.3935 |
| 0.080                       | -0.5185 | 0.080                    | -0.4742 | 0.080                      | -0.4031 |
| 0.100                       | -0.5131 | 0.100                    | -0.4707 | 0.100                      | -0.4100 |
| 0.125                       | -0.4667 | 0.125                    | -0.4725 | 0.125                      | -0.4196 |
| 0.150                       | -0.5187 | 0.150                    | -0.4860 | 0.150                      | -0.4247 |
| 0.175                       | -0.5091 | 0.175                    | -0.4952 | 0.175                      | -0.4437 |
| 0.200                       | -0.5415 | 0.200                    | -0.5063 | 0.200                      | -0.4349 |
| 0.250                       | -0.5357 | 0.250                    | -0.5369 | 0.250                      | -0.4559 |
| 0.300                       | -0.5174 | 0.300                    | -0.5145 | 0.300                      | -0.4464 |
| 0.350                       | -0.4908 | 0.350                    | -0.4806 | 0.350                      | -0.4479 |
| 0.400                       | -0.4539 | 0.400                    | -0.4785 | 0.400                      | -0.4343 |
| 0.450                       | -0.4052 | 0.450                    | -0.4284 | 0.450                      | -0.4207 |
| 0.500                       | -0.3978 | 0.500                    | -0.4220 | 0.500                      | -0.3970 |
| 0.550                       | -0.3475 | 0.550                    | -0.4088 | 0.550                      | -0.4121 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3218 | 0.005 | 0.3286 | 0.005 | 0.2502  |
| 0.010 | 0.0955 | 0.010 | 0.0875 | 0.010 | -0.0357 |

Fight 35 Test point 25

Sweep, deg = 35.0 Mach = 0.70 hp, ft = 24700. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 272.9 Rnpu = 2531000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7130  | 0.000                    | 0.6941  | 0.000                      | 0.7021  |
| 0.005                       | -0.2225 | 0.005                    | -0.1853 | 0.005                      | 0.0945  |
| 0.010                       | -0.4703 | 0.010                    | -0.3832 | 0.010                      | -0.1673 |
| 0.020                       | -0.6055 | 0.020                    | -0.5657 | 0.020                      | -0.4247 |
| 0.040                       | -0.6318 | 0.040                    | -0.6102 | 0.040                      | -0.5048 |
| 0.060                       | -0.6340 | 0.060                    | -0.6009 | 0.060                      | -0.5319 |
| 0.080                       | -0.6330 | 0.080                    | -0.6012 | 0.080                      | -0.5241 |
| 0.100                       | -0.6131 | 0.100                    | -0.5799 | 0.100                      | -0.5199 |
| 0.125                       | -0.5437 | 0.125                    | -0.5684 | 0.125                      | -0.5073 |
| 0.150                       | -0.6003 | 0.150                    | -0.5789 | 0.150                      | -0.5072 |
| 0.175                       | -0.5778 | 0.175                    | -0.5842 | 0.175                      | -0.5222 |
| 0.200                       | -0.6077 | 0.200                    | -0.5829 | 0.200                      | -0.5045 |
| 0.250                       | -0.5957 | 0.250                    | -0.6035 | 0.250                      | -0.5174 |
| 0.300                       | -0.5682 | 0.300                    | -0.5724 | 0.300                      | -0.4985 |
| 0.350                       | -0.5302 | 0.350                    | -0.5257 | 0.350                      | -0.4915 |
| 0.400                       | -0.4872 | 0.400                    | -0.5168 | 0.400                      | -0.4695 |
| 0.450                       | -0.4333 | 0.450                    | -0.4626 | 0.450                      | -0.4506 |
| 0.500                       | -0.4225 | 0.500                    | -0.4496 | 0.500                      | -0.4200 |
| 0.550                       | -0.3680 | 0.550                    | -0.4337 | 0.550                      | -0.4270 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.4573 | 0.005 | 0.4551 | 0.005 | 0.4018 |
| 0.010         | 0.2527 | 0.010 | 0.2442 | 0.010 | 0.1460 |

Flight 35 Test point 26

Sweep, deg = 31.2 Mach = 3.70 hp, ft = 25000. Angle of attack, deg = 2.1  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 270.7 Rnpu = 2509000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.7788  | 0.000                    | 0.7711  | 0.000                      | 0.7787  |
| 0.005                       | -0.2270 | 0.005                    | -0.1608 | 0.005                      | 0.1336  |
| 0.010                       | -0.4954 | 0.010                    | -0.3866 | 0.010                      | -0.1558 |
| 0.020                       | -0.6447 | 0.020                    | -0.5882 | 0.020                      | -0.4555 |
| 0.040                       | -0.7018 | 0.040                    | -0.6599 | 0.040                      | -0.5479 |
| 0.060                       | -0.7096 | 0.060                    | -0.6524 | 0.060                      | -0.5768 |
| 0.080                       | -0.6984 | 0.080                    | -0.6550 | 0.080                      | -0.5695 |
| 0.100                       | -0.6844 | 0.100                    | -0.6362 | 0.100                      | -0.5663 |
| 0.125                       | -0.6021 | 0.125                    | -0.6235 | 0.125                      | -0.5545 |
| 0.150                       | -0.6709 | 0.150                    | -0.6463 | 0.150                      | -0.5565 |
| 0.175                       | -0.6425 | 0.175                    | -0.6452 | 0.175                      | -0.5720 |
| 0.200                       | -0.6797 | 0.200                    | -0.6484 | 0.200                      | -0.5564 |
| 0.250                       | -0.6611 | 0.250                    | -0.6744 | 0.250                      | -0.5711 |
| 0.300                       | -0.6361 | 0.300                    | -0.6392 | 0.300                      | -0.5508 |
| 0.350                       | -0.5910 | 0.350                    | -0.5920 | 0.350                      | -0.5446 |
| 0.400                       | -0.5351 | 0.400                    | -0.5711 | 0.400                      | -0.5179 |
| 0.450                       | -0.4775 | 0.450                    | -0.5086 | 0.450                      | -0.4949 |
| 0.500                       | -0.4591 | 0.500                    | -0.4905 | 0.500                      | -0.4573 |
| 0.550                       | -0.3977 | 0.550                    | -0.4663 | 0.550                      | -0.4564 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4929 | 0.005 | 0.4992 | 0.005 | 0.4384 |
| 0.010 | 0.2745 | 0.010 | 0.2698 | 0.010 | 0.1528 |

Fight 35 Test point 27

Sweep, deg = 31.1 Mach = 0.70 hp, ft = 25800. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 260.1 Rnpu = 2427000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8102  | 0.000                    | 0.8106  | 0.000                      | 0.8026  |
| 0.005                       | -0.0236 | 0.005                    | 0.0308  | 0.005                      | 0.2936  |
| 0.010                       | -0.2804 | 0.010                    | -0.1814 | 0.010                      | 0.0304  |
| 0.020                       | -0.4569 | 0.020                    | -0.2892 | 0.020                      | -0.2626 |
| 0.040                       | -0.5387 | 0.040                    | -0.4907 | 0.040                      | -0.3866 |
| 0.060                       | -0.5682 | 0.060                    | -0.5126 | 0.060                      | -0.4431 |
| 0.080                       | -0.5732 | 0.080                    | -0.5298 | 0.080                      | -0.4496 |
| 0.100                       | -0.5722 | 0.100                    | -0.5248 | 0.100                      | -0.4594 |
| 0.125                       | -0.5212 | 0.125                    | -0.5226 | 0.125                      | -0.4615 |
| 0.150                       | -0.5828 | 0.150                    | -0.5493 | 0.150                      | -0.4701 |
| 0.175                       | -0.5687 | 0.175                    | -0.5679 | 0.175                      | -0.4876 |
| 0.200                       | -0.6078 | 0.200                    | -0.5700 | 0.200                      | -0.4809 |
| 0.250                       | -0.5968 | 0.250                    | -0.6086 | 0.250                      | -0.5069 |
| 0.300                       | -0.5792 | 0.300                    | -0.5825 | 0.300                      | -0.4987 |
| 0.350                       | -0.5447 | 0.350                    | -0.5375 | 0.350                      | -0.4988 |
| 0.400                       | -0.4996 | 0.400                    | -0.5313 | 0.400                      | -0.4815 |
| 0.450                       | -0.4462 | 0.450                    | -0.4789 | 0.450                      | -0.4623 |
| 0.500                       | -0.4382 | 0.500                    | -0.4666 | 0.500                      | -0.4304 |
| 0.550                       | -0.3768 | 0.550                    | -0.4481 | 0.550                      | -0.4390 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3666 | 0.005 | 0.3703 | 0.005 | 0.2911  |
| 0.010 | 0.1257 | 0.010 | 0.1133 | 0.010 | -0.0244 |



Flight 35 Test point 28

Sweep, deg = 27.0 Mach = 0.70 hp, ft = 24900. Angle of attack, deg = 2.2  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 271.5 Rnpu = 2521000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8268  | 0.000                    | 0.8307  | 0.000                      | 0.8407  |
| 0.005                       | -0.2610 | 0.005                    | -0.1782 | 0.005                      | 0.1447  |
| 0.010                       | -0.5462 | 0.010                    | -0.4327 | 0.010                      | -0.1698 |
| 0.020                       | -0.7167 | 0.020                    | -0.6572 | 0.020                      | -0.5022 |
| 0.040                       | -0.7938 | 0.040                    | -0.7551 | 0.040                      | -0.6147 |
| 0.060                       | -0.8092 | 0.060                    | -0.7459 | 0.060                      | -0.6477 |
| 0.080                       | -0.7953 | 0.080                    | -0.7377 | 0.080                      | -0.6397 |
| 0.100                       | -0.7653 | 0.100                    | -0.7228 | 0.100                      | -0.6328 |
| 0.125                       | -0.6745 | 0.125                    | -0.6968 | 0.125                      | -0.6267 |
| 0.150                       | -0.7520 | 0.150                    | -0.7233 | 0.150                      | -0.6158 |
| 0.175                       | -0.7205 | 0.175                    | -0.7295 | 0.175                      | -0.6421 |
| 0.200                       | -0.7630 | 0.200                    | -0.7272 | 0.200                      | -0.6210 |
| 0.250                       | -0.7397 | 0.250                    | -0.7610 | 0.250                      | -0.6365 |
| 0.300                       | -0.7062 | 0.300                    | -0.7197 | 0.300                      | -0.6106 |
| 0.350                       | -0.6520 | 0.350                    | -0.6593 | 0.350                      | -0.6008 |
| 0.400                       | -0.5898 | 0.400                    | -0.6378 | 0.400                      | -0.5717 |
| 0.450                       | -0.5169 | 0.450                    | -0.5660 | 0.450                      | -0.5382 |
| 0.500                       | -0.4974 | 0.500                    | -0.5391 | 0.500                      | -0.4971 |
| 0.550                       | -0.4265 | 0.550                    | -0.5123 | 0.550                      | -0.4923 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5489 | 0.005 | 0.5537 | 0.005 | 0.4868 |
| 0.010 | 0.3211 | 0.010 | 0.3100 | 0.010 | 0.1858 |

Fight 35 Test point 29

Sweep, deg = 27.0 Mach = 0.70 hp, ft = 25200. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 269.9 Rrho = 2503000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8727  | 0.000                    | 0.8817  | 0.000                      | 0.8709  |
| 0.005                       | 0.0543  | 0.005                    | 0.1147  | 0.005                      | 0.3774  |
| 0.010                       | -0.2118 | 0.010                    | -0.1232 | 0.010                      | 0.1050  |
| 0.020                       | -0.4119 | 0.020                    | -0.3523 | 0.020                      | -0.2078 |
| 0.040                       | -0.5270 | 0.040                    | -0.4894 | 0.040                      | -0.3618 |
| 0.060                       | -0.5582 | 0.060                    | -0.5098 | 0.060                      | -0.4325 |
| 0.080                       | -0.5927 | 0.080                    | -0.5296 | 0.080                      | -0.4463 |
| 0.100                       | -0.5819 | 0.100                    | -0.5382 | 0.100                      | -0.4596 |
| 0.125                       | -0.5381 | 0.125                    | -0.5320 | 0.125                      | -0.4682 |
| 0.150                       | -0.6127 | 0.150                    | -0.5687 | 0.150                      | -0.4815 |
| 0.175                       | -0.5957 | 0.175                    | -0.5897 | 0.175                      | -0.5051 |
| 0.200                       | -0.6445 | 0.200                    | -0.5991 | 0.200                      | -0.5020 |
| 0.250                       | -0.6364 | 0.250                    | -0.6449 | 0.250                      | -0.5352 |
| 0.300                       | -0.6234 | 0.300                    | -0.6254 | 0.300                      | -0.5275 |
| 0.350                       | -0.5829 | 0.350                    | -0.5518 | 0.350                      | -0.5325 |
| 0.400                       | -0.5355 | 0.400                    | -0.5764 | 0.400                      | -0.5136 |
| 0.450                       | -0.4750 | 0.450                    | -0.5169 | 0.450                      | -0.4948 |
| 0.500                       | -0.4625 | 0.500                    | -0.5013 | 0.500                      | -0.4624 |
| 0.550                       | -0.4032 | 0.550                    | -0.4781 | 0.550                      | -0.4653 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3499 | 0.005 | 0.3600 | 0.005 | 0.2786  |
| 0.010 | 0.0842 | 0.010 | 0.0712 | 0.010 | -0.0766 |

Fight 35 Test point 30

Sweep, deg = 27.0 Mach = 0.70 hp, ft = 24800. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 273.9 Rnpu = 2538000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8555  | 0.000                    | 0.8600  | 0.000                      | 0.8568  |
| 0.005                       | -0.1302 | 0.005                    | -0.0557 | 0.005                      | 0.2429  |
| 0.010                       | -0.4097 | 0.010                    | -0.3045 | 0.010                      | -0.0544 |
| 0.020                       | -0.5890 | 0.020                    | -0.5255 | 0.020                      | -0.3787 |
| 0.040                       | -0.6834 | 0.040                    | -0.6435 | 0.040                      | -0.5044 |
| 0.060                       | -0.7069 | 0.060                    | -0.6460 | 0.060                      | -0.5579 |
| 0.080                       | -0.7122 | 0.080                    | -0.6554 | 0.080                      | -0.5580 |
| 0.100                       | -0.6928 | 0.100                    | -0.6464 | 0.100                      | -0.5639 |
| 0.125                       | -0.6226 | 0.125                    | -0.6333 | 0.125                      | -0.5618 |
| 0.150                       | -0.6988 | 0.150                    | -0.6614 | 0.150                      | -0.5590 |
| 0.175                       | -0.6715 | 0.175                    | -0.6733 | 0.175                      | -0.5918 |
| 0.200                       | -0.7167 | 0.200                    | -0.6767 | 0.200                      | -0.5742 |
| 0.250                       | -0.7001 | 0.250                    | -0.7162 | 0.250                      | -0.5973 |
| 0.300                       | -0.6744 | 0.300                    | -0.8856 | 0.300                      | -0.5768 |
| 0.350                       | -0.6256 | 0.350                    | -0.6309 | 0.350                      | -0.5742 |
| 0.400                       | -0.5670 | 0.400                    | -0.6124 | 0.400                      | -0.5513 |
| 0.450                       | -0.5004 | 0.450                    | -0.5479 | 0.450                      | -0.5277 |
| 0.500                       | -0.4896 | 0.500                    | -0.5248 | 0.500                      | -0.4841 |
| 0.550                       | -0.4165 | 0.550                    | -0.4938 | 0.550                      | -0.4813 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.4819 | 0.005 | 0.4864 | 0.005 | 0.4087 |
| 0.010         | 0.2364 | 0.010 | 0.2216 | 0.010 | 0.0861 |

Fight 35 Test point 31

Sweep, deg = 21.3 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 270.4 Rnpu = 2513000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9398  | 0.000                    | 0.9611  | 0.000                      | 0.9543  |
| 0.005                       | -0.0756 | 0.005                    | 0.0211  | 0.005                      | 0.3343  |
| 0.010                       | -0.3695 | 0.010                    | -0.2509 | 0.010                      | 0.0193  |
| 0.020                       | -0.5760 | 0.020                    | -0.5070 | 0.020                      | -0.3385 |
| 0.040                       | -0.7197 | 0.040                    | -0.6493 | 0.040                      | -0.4926 |
| 0.060                       | -0.7513 | 0.060                    | -0.6682 | 0.060                      | -0.5671 |
| 0.080                       | -0.7610 | 0.080                    | -0.6828 | 0.080                      | -0.5755 |
| 0.100                       | -0.7524 | 0.100                    | -0.6834 | 0.100                      | -0.5816 |
| 0.125                       | -0.6752 | 0.125                    | -0.6733 | 0.125                      | -0.5827 |
| 0.150                       | -0.7665 | 0.150                    | -0.7110 | 0.150                      | -0.6045 |
| 0.175                       | -0.7374 | 0.175                    | -0.7348 | 0.175                      | -0.6214 |
| 0.200                       | -0.7985 | 0.200                    | -0.7391 | 0.200                      | -0.6275 |
| 0.250                       | -0.7747 | 0.250                    | -0.7932 | 0.250                      | -0.6514 |
| 0.300                       | -0.7442 | 0.300                    | -0.7567 | 0.300                      | -0.6377 |
| 0.350                       | -0.6796 | 0.350                    | -0.6965 | 0.350                      | -0.6319 |
| 0.400                       | -0.6157 | 0.400                    | -0.6730 | 0.400                      | -0.5921 |
| 0.450                       | -0.5419 | 0.450                    | -0.5946 | 0.450                      | -0.5697 |
| 0.500                       | -0.5187 | 0.500                    | -0.5706 | 0.500                      | -0.5231 |
| 0.550                       | -0.4468 | 0.550                    | -0.5388 | 0.550                      | -0.5051 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5087 | 0.005 | 0.5077 | 0.005 | 0.4285 |
| 0.010 | 0.2446 | 0.010 | 0.2215 | 0.010 | 0.0607 |

Flight 35 Test point 32

Sweep, deg = 21.3 Mach = 0.70 hp, ft = 25800. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 260.9 Rnpu = 2437000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9544  | 0.000                    | 0.9781  | 0.000                      | 0.9653  |
| 0.005                       | 0.1048  | 0.005                    | 0.1918  | 0.005                      | 0.4679  |
| 0.010                       | -0.1825 | 0.010                    | -0.0666 | 0.010                      | 0.1744  |
| 0.020                       | -0.4057 | 0.020                    | -0.3241 | 0.020                      | -0.1670 |
| 0.040                       | -0.5549 | 0.040                    | -0.4859 | 0.040                      | -0.3451 |
| 0.060                       | -0.6051 | 0.060                    | -0.5260 | 0.060                      | -0.4295 |
| 0.080                       | -0.6343 | 0.080                    | -0.5591 | 0.080                      | -0.4502 |
| 0.100                       | -0.6383 | 0.100                    | -0.5684 | 0.100                      | -0.4741 |
| 0.125                       | -0.5897 | 0.125                    | -0.5087 | 0.125                      | -0.4880 |
| 0.150                       | -0.6691 | 0.150                    | -0.6134 | 0.150                      | -0.5173 |
| 0.175                       | -0.6554 | 0.175                    | -0.6378 | 0.175                      | -0.5350 |
| 0.200                       | -0.7097 | 0.200                    | -0.6534 | 0.200                      | -0.5414 |
| 0.250                       | -0.7041 | 0.250                    | -0.7062 | 0.250                      | -0.5794 |
| 0.300                       | -0.6857 | 0.300                    | -0.6883 | 0.300                      | -0.5722 |
| 0.350                       | -0.6342 | 0.350                    | -0.6438 | 0.350                      | -0.5809 |
| 0.400                       | -0.5789 | 0.400                    | -0.6336 | 0.400                      | -0.5597 |
| 0.450                       | -0.5142 | 0.450                    | -0.5611 | 0.450                      | -0.5335 |
| 0.500                       | -0.4964 | 0.500                    | -0.5480 | 0.500                      | -0.4954 |
| 0.550                       | -0.4292 | 0.550                    | -0.5190 | 0.550                      | -0.4875 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3760 | 0.005 | 0.3760 | 0.005 | 0.2821  |
| 0.010 | 0.0912 | 0.010 | 0.0601 | 0.010 | -0.1138 |

Fight 35 Test point 33

Sweep, deg = 21.3 Mach = 0.70 hp, ft = 25900. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 261.2 Rnpu = 2434000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9618  | 0.000                    | 0.9842  | 0.000                      | 0.9624  |
| 0.005                       | 0.1805  | 0.005                    | 0.2651  | 0.005                      | 0.5247  |
| 0.010                       | -0.1026 | 0.010                    | 0.0099  | 0.010                      | 0.2407  |
| 0.020                       | -0.3288 | 0.020                    | -0.2519 | 0.020                      | -0.0913 |
| 0.040                       | -0.4890 | 0.040                    | -0.4221 | 0.040                      | -0.2708 |
| 0.060                       | -0.5478 | 0.060                    | -0.4708 | 0.060                      | -0.3710 |
| 0.080                       | -0.5827 | 0.080                    | -0.5073 | 0.080                      | -0.4017 |
| 0.100                       | -0.5893 | 0.100                    | -0.5234 | 0.100                      | -0.4253 |
| 0.125                       | -0.5573 | 0.125                    | -0.5246 | 0.125                      | -0.4456 |
| 0.150                       | -0.6319 | 0.150                    | -0.5676 | 0.150                      | -0.4775 |
| 0.175                       | -0.6251 | 0.175                    | -0.5995 | 0.175                      | -0.4982 |
| 0.200                       | -0.6745 | 0.200                    | -0.6197 | 0.200                      | -0.5047 |
| 0.250                       | -0.6752 | 0.250                    | -0.6838 | 0.250                      | -0.5511 |
| 0.300                       | -0.6653 | 0.300                    | -0.6661 | 0.300                      | -0.5520 |
| 0.350                       | -0.6162 | 0.350                    | -0.6206 | 0.350                      | -0.5623 |
| 0.400                       | -0.5619 | 0.400                    | -0.6134 | 0.400                      | -0.5459 |
| 0.450                       | -0.5018 | 0.450                    | -0.5463 | 0.450                      | -0.5198 |
| 0.500                       | -0.4841 | 0.500                    | -0.5351 | 0.500                      | -0.4838 |
| 0.550                       | -0.4229 | 0.550                    | -0.5101 | 0.550                      | -0.4725 |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3131 | 0.005 | 0.3148  | 0.005 | 0.2129  |
| 0.010 | 0.0187 | 0.010 | -0.0174 | 0.010 | -0.1931 |

Flight 35 Test point 34

Sweep, deg = 21.3 Mach = 0.70 hp, ft = 26900. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 250.8 Rnpu = 2354000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9453  | 0.000                    | 0.9621  | 0.000                      | 0.9599  |
| 0.005                       | -0.0420 | 0.005                    | 0.0446  | 0.005                      | 0.3546  |
| 0.010                       | -0.3390 | 0.010                    | -0.2239 | 0.010                      | 0.0374  |
| 0.020                       | -0.5512 | 0.020                    | -0.4788 | 0.020                      | -0.3119 |
| 0.040                       | -0.6946 | 0.040                    | -0.6239 | 0.040                      | -0.4719 |
| 0.060                       | -0.7347 | 0.060                    | -0.6535 | 0.060                      | -0.5437 |
| 0.080                       | -0.7452 | 0.080                    | -0.6655 | 0.080                      | -0.5561 |
| 0.100                       | -0.7412 | 0.100                    | -0.6670 | 0.100                      | -0.5641 |
| 0.125                       | -0.6686 | 0.125                    | -0.6621 | 0.125                      | -0.5723 |
| 0.150                       | -0.7596 | 0.150                    | -0.7041 | 0.150                      | -0.5940 |
| 0.175                       | -0.7316 | 0.175                    | -0.7214 | 0.175                      | -0.6119 |
| 0.200                       | -0.7934 | 0.200                    | -0.7265 | 0.200                      | -0.6177 |
| 0.250                       | -0.7701 | 0.250                    | -0.7906 | 0.250                      | -0.6404 |
| 0.300                       | -0.7380 | 0.300                    | -0.7567 | 0.300                      | -0.6313 |
| 0.350                       | -0.6748 | 0.350                    | -0.6948 | 0.350                      | -0.6261 |
| 0.400                       | -0.6110 | 0.400                    | -0.6693 | 0.400                      | -0.5908 |
| 0.450                       | -0.5370 | 0.450                    | -0.5923 | 0.450                      | -0.5669 |
| 0.500                       | -0.5139 | 0.500                    | -0.5696 | 0.500                      | -0.5199 |
| 0.550                       | -0.4401 | 0.550                    | -0.5338 | 0.550                      | -0.4969 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.000 | 0.4938 | 0.005 | 0.4972 | 0.005 | 0.4101 |
| 0.010 | 0.2256 | 0.010 | 0.2010 | 0.010 | 0.0459 |

Fight 35 Test point 35

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 30000. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 250.1 Rnpu = 2242000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9779  | 0.000                    | 0.9945  | 0.000                      | 0.9820  |
| 0.005                       | 0.0176  | 0.005                    | 0.1085  | 0.005                      | 0.3868  |
| 0.010                       | -0.2803 | 0.010                    | -0.1621 | 0.010                      | 0.0719  |
| 0.020                       | -0.5041 | 0.020                    | -0.4350 | 0.020                      | -0.2896 |
| 0.040                       | -0.7060 | 0.040                    | -0.6199 | 0.040                      | -0.4756 |
| 0.060                       | -0.7175 | 0.060                    | -0.6674 | 0.060                      | -0.5780 |
| 0.080                       | -0.8099 | 0.080                    | -0.7071 | 0.080                      | -0.6002 |
| 0.100                       | -0.7638 | 0.100                    | -0.7281 | 0.100                      | -0.6150 |
| 0.125                       | -0.7283 | 0.125                    | -0.7046 | 0.125                      | -0.6299 |
| 0.150                       | -0.8244 | 0.150                    | -0.7248 | 0.150                      | -0.6863 |
| 0.175                       | -0.8223 | 0.175                    | -0.7852 | 0.175                      | -0.6949 |
| 0.200                       | -0.9175 | 0.200                    | -0.8247 | 0.200                      | -0.7140 |
| 0.250                       | -0.9856 | 0.250                    | -0.9297 | 0.250                      | -0.7797 |
| 0.300                       | -1.0173 | 0.300                    | -0.9752 | 0.300                      | -0.8485 |
| 0.350                       | -0.9911 | 0.350                    | -1.0188 | 0.350                      | -0.8667 |
| 0.400                       | -0.6907 | 0.400                    | -1.0802 | 0.400                      | -0.8568 |
| 0.450                       | -0.5301 | 0.450                    | -0.9622 | 0.450                      | -0.4849 |
| 0.500                       | -0.5144 | 0.500                    | -0.4626 | 0.500                      | -0.5282 |
| 0.550                       | -0.4481 | 0.550                    | -0.4891 | 0.550                      | -0.4946 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5198 | 0.005 | 0.5213 | 0.005 | 0.4497 |
| 0.010 | 0.2495 | 0.010 | 0.2223 | 0.010 | 0.0824 |



Fight 35 Test point 36

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 30300. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -5.3 QBAR, lb/ft<sup>2</sup> = 244.6 Rrho = 2202000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0331  | 0.000                    | 1.0708  | 0.000                      | 1.0554  |
| 0.005                       | 0.1265  | 0.005                    | 0.2393  | 0.005                      | 0.5124  |
| 0.010                       | -0.1732 | 0.010                    | -0.0352 | 0.010                      | 0.2043  |
| 0.020                       | -0.4036 | 0.020                    | -0.3109 | 0.020                      | -0.1669 |
| 0.040                       | -0.6081 | 0.040                    | -0.5090 | 0.040                      | -0.3587 |
| 0.060                       | -0.6730 | 0.060                    | -0.5709 | 0.060                      | -0.4670 |
| 0.080                       | -0.7563 | 0.080                    | -0.6189 | 0.080                      | -0.4996 |
| 0.100                       | -0.7289 | 0.100                    | -0.6410 | 0.100                      | -0.5298 |
| 0.125                       | -0.6797 | 0.125                    | -0.6372 | 0.125                      | -0.5501 |
| 0.150                       | -0.7634 | 0.150                    | -0.6796 | 0.150                      | -0.5961 |
| 0.175                       | -0.7951 | 0.175                    | -0.7377 | 0.175                      | -0.6258 |
| 0.200                       | -0.8951 | 0.200                    | -0.7807 | 0.200                      | -0.6433 |
| 0.250                       | -0.9630 | 0.250                    | -0.8841 | 0.250                      | -0.7334 |
| 0.300                       | -1.0210 | 0.300                    | -0.9395 | 0.300                      | -0.7536 |
| 0.350                       | -0.9923 | 0.350                    | -0.9758 | 0.350                      | -0.7825 |
| 0.400                       | -0.6293 | 0.400                    | -1.0311 | 0.400                      | -0.7895 |
| 0.450                       | -0.4874 | 0.450                    | -0.8348 | 0.450                      | -0.6727 |
| 0.500                       | -0.4918 | 0.500                    | -0.4844 | 0.500                      | -0.5316 |
| 0.550                       | -0.4287 | 0.550                    | -0.5023 | 0.550                      | -0.4791 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5004 | 0.005 | 0.4902 | 0.005 | 0.4061 |
| 0.010 | 0.2192 | 0.010 | 0.1650 | 0.010 | 0.0069 |

Fight 35 Test point 37

Sweep, deg = 20.0 Mach = 0.75 hp. ft = 30300. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 245.8 Rnpu = 2213000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9896  | 0.000                    | 1.0096  | 0.000                      | 0.9968  |
| 0.005                       | 0.2032  | 0.005                    | 0.2803  | 0.005                      | 0.5282  |
| 0.010                       | -0.0855 | 0.010                    | 0.0205  | 0.010                      | 0.2371  |
| 0.020                       | -0.3204 | 0.020                    | -0.2535 | 0.020                      | -0.1090 |
| 0.040                       | -0.5092 | 0.040                    | -0.4404 | 0.040                      | -0.3086 |
| 0.060                       | -0.5863 | 0.060                    | -0.5010 | 0.060                      | -0.4109 |
| 0.080                       | -0.6243 | 0.080                    | -0.5428 | 0.080                      | -0.4509 |
| 0.100                       | -0.6525 | 0.100                    | -0.5686 | 0.100                      | -0.4793 |
| 0.125                       | -0.6127 | 0.125                    | -0.5792 | 0.125                      | -0.5036 |
| 0.150                       | -0.7097 | 0.150                    | -0.6458 | 0.150                      | -0.5453 |
| 0.175                       | -0.7383 | 0.175                    | -0.6947 | 0.175                      | -0.5788 |
| 0.200                       | -0.7861 | 0.200                    | -0.7071 | 0.200                      | -0.6050 |
| 0.250                       | -0.8540 | 0.250                    | -0.8243 | 0.250                      | -0.6789 |
| 0.300                       | -0.8417 | 0.300                    | -0.8515 | 0.300                      | -0.6835 |
| 0.350                       | -0.7641 | 0.350                    | -0.8872 | 0.350                      | -0.7354 |
| 0.400                       | -0.7021 | 0.400                    | -0.8283 | 0.400                      | -0.6127 |
| 0.450                       | -0.5389 | 0.450                    | -0.5609 | 0.450                      | -0.5846 |
| 0.500                       | -0.5215 | 0.500                    | -0.5711 | 0.500                      | -0.5311 |
| 0.550                       | -0.4446 | 0.550                    | -0.5307 | 0.550                      | -0.4900 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3637 | 0.005 | 0.3731 | 0.005 | 0.2919  |
| 0.010 | 0.0706 | 0.010 | 0.0430 | 0.010 | -0.1170 |

Fight 35 Test point 38

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 30900. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -5.5 QBAR, lb/ft<sup>2</sup> = 238.4 R<sub>pu</sub> = 2155000.

Upper surface

| BL 200.8<br>Inboard station |                | BL 260<br>Middle station |                | BL 320<br>Outboard station |                |
|-----------------------------|----------------|--------------------------|----------------|----------------------------|----------------|
| x/c                         | C <sub>p</sub> | x/c                      | C <sub>p</sub> | x/c                        | C <sub>p</sub> |
| 0.000                       | 1.0408         | 0.000                    | 1.0750         | 0.000                      | 1.0549         |
| 0.005                       | 0.2940         | 0.005                    | 0.3928         | 0.005                      | 0.6385         |
| 0.010                       | 0.0064         | 0.010                    | 0.1353         | 0.010                      | 0.3564         |
| 0.020                       | -0.2399        | 0.020                    | -0.1497        | 0.020                      | 0.0058         |
| 0.040                       | -0.4442        | 0.040                    | -0.3460        | 0.040                      | -0.2083        |
| 0.060                       | -0.5309        | 0.060                    | -0.4206        | 0.060                      | -0.3248        |
| 0.080                       | -0.5779        | 0.080                    | -0.4732        | 0.080                      | -0.3692        |
| 0.100                       | -0.6074        | 0.100                    | -0.5076        | 0.100                      | -0.4088        |
| 0.125                       | -0.6757        | 0.125                    | -0.5259        | 0.125                      | -0.4347        |
| 0.150                       | -0.6871        | 0.150                    | -0.5899        | 0.150                      | -0.4844        |
| 0.175                       | -0.7078        | 0.175                    | -0.6365        | 0.175                      | -0.5218        |
| 0.200                       | -0.7640        | 0.200                    | -0.6656        | 0.200                      | -0.5510        |
| 0.250                       | -0.8405        | 0.250                    | -0.7888        | 0.250                      | -0.6185        |
| 0.300                       | -0.8921        | 0.300                    | -0.8308        | 0.300                      | -0.6482        |
| 0.350                       | -0.7396        | 0.350                    | -0.8619        | 0.350                      | -0.7075        |
| 0.400                       | -0.5939        | 0.400                    | -0.8510        | 0.400                      | -0.6363        |
| 0.450                       | -0.5245        | 0.450                    | -0.5343        | 0.450                      | -0.6111        |
| 0.500                       | -0.5050        | 0.500                    | -0.5627        | 0.500                      | -0.5067        |
| 0.550                       | -0.4243        | 0.550                    | -0.5243        | 0.550                      | -0.4636        |

Lower surface

|       |        |       |         |       |         |
|-------|--------|-------|---------|-------|---------|
| 0.005 | 0.3540 | 0.005 | 0.3455  | 0.005 | 0.2535  |
| 0.010 | 0.0470 | 0.010 | -0.0100 | 0.010 | -0.1893 |

Fight 35 Test point 39

Sweep, deg = 25.1 Mach = 0.75 hp, ft = 30000. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 250.1 Rnpu = 2245000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8948  | 0.000                    | 0.9010  | 0.000                      | 0.8964  |
| 0.005                       | -0.0843 | 0.005                    | -0.0188 | 0.005                      | 0.2646  |
| 0.010                       | -0.3727 | 0.010                    | -0.2733 | 0.010                      | -0.0479 |
| 0.020                       | -0.5823 | 0.020                    | -0.5237 | 0.020                      | -0.4012 |
| 0.040                       | -0.7590 | 0.040                    | -0.6892 | 0.040                      | -0.5597 |
| 0.060                       | -0.7376 | 0.060                    | -0.7132 | 0.060                      | -0.6419 |
| 0.080                       | -0.8511 | 0.080                    | -0.7472 | 0.080                      | -0.6435 |
| 0.100                       | -0.7837 | 0.100                    | -0.7472 | 0.100                      | -0.6493 |
| 0.125                       | -0.7331 | 0.125                    | -0.7300 | 0.125                      | -0.6636 |
| 0.150                       | -0.8167 | 0.150                    | -0.7326 | 0.150                      | -0.7139 |
| 0.175                       | -0.8035 | 0.175                    | -0.7937 | 0.175                      | -0.7231 |
| 0.200                       | -0.8771 | 0.200                    | -0.8286 | 0.200                      | -0.7111 |
| 0.250                       | -0.9265 | 0.250                    | -0.9190 | 0.250                      | -0.7994 |
| 0.300                       | -0.8285 | 0.300                    | -0.9381 | 0.300                      | -0.7974 |
| 0.350                       | -0.8050 | 0.350                    | -0.9610 | 0.350                      | -0.6981 |
| 0.400                       | -0.6717 | 0.400                    | -0.6428 | 0.400                      | -0.6032 |
| 0.450                       | -0.5451 | 0.450                    | -0.5424 | 0.450                      | -0.5884 |
| 0.500                       | -0.5215 | 0.500                    | -0.5534 | 0.500                      | -0.5230 |
| 0.550                       | -0.4427 | 0.550                    | -0.5245 | 0.550                      | -0.4940 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5189 | 0.005 | 0.5270 | 0.005 | 0.4759 |
| 0.010 | 0.2771 | 0.010 | 0.2615 | 0.010 | 0.1432 |

Fight 35 Test point 40

Sweep, deg = 25.1 Mach = 0.75 hp, ft = 30000. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 248.2 Rnpu = 2234000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9199  | 0.000                    | 0.9334  | 0.000                      | 0.9179  |
| 0.005                       | 0.1334  | 0.005                    | 0.1938  | 0.005                      | 0.4410  |
| 0.010                       | -0.1431 | 0.010                    | -0.0478 | 0.010                      | 0.1595  |
| 0.020                       | -0.3635 | 0.020                    | -0.3062 | 0.020                      | -0.1667 |
| 0.040                       | -0.5146 | 0.040                    | -0.4693 | 0.040                      | -0.3445 |
| 0.060                       | -0.5844 | 0.060                    | -0.5196 | 0.060                      | -0.4377 |
| 0.080                       | -0.6164 | 0.080                    | -0.5501 | 0.080                      | -0.4651 |
| 0.100                       | -0.6258 | 0.100                    | -0.5697 | 0.100                      | -0.4891 |
| 0.125                       | -0.5872 | 0.125                    | -0.5721 | 0.125                      | -0.5103 |
| 0.150                       | -0.6735 | 0.150                    | -0.6289 | 0.150                      | -0.5404 |
| 0.175                       | -0.6554 | 0.175                    | -0.6552 | 0.175                      | -0.5704 |
| 0.200                       | -0.7129 | 0.200                    | -0.6845 | 0.200                      | -0.5762 |
| 0.250                       | -0.7507 | 0.250                    | -0.7654 | 0.250                      | -0.6203 |
| 0.300                       | -0.7158 | 0.300                    | -0.7816 | 0.300                      | -0.6246 |
| 0.350                       | -0.7051 | 0.350                    | -0.6424 | 0.350                      | -0.6207 |
| 0.400                       | -0.6023 | 0.400                    | -0.6517 | 0.400                      | -0.5848 |
| 0.450                       | -0.5234 | 0.450                    | -0.5703 | 0.450                      | -0.5442 |
| 0.500                       | -0.5040 | 0.500                    | -0.5429 | 0.500                      | -0.4927 |
| 0.550                       | -0.4275 | 0.550                    | -0.5076 | 0.550                      | -0.4778 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3582 | 0.005 | 0.3655 | 0.005 | 0.2936  |
| 0.010 | 0.0816 | 0.010 | 0.0662 | 0.010 | -0.0820 |

Fight 35 Test point 41

Sweep, deg = 30.5 Mach = 0.75 hp, ft = 30000. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 248.9 Rnpu = 2240000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8117  | 0.000                    | 0.8048  | 0.000                      | 0.7983  |
| 0.005                       | -0.1314 | 0.005                    | -0.0849 | 0.005                      | 0.1847  |
| 0.010                       | -0.4058 | 0.010                    | -0.3142 | 0.010                      | -0.1047 |
| 0.020                       | -0.5949 | 0.020                    | -0.5353 | 0.020                      | -0.4216 |
| 0.040                       | -0.6746 | 0.040                    | -0.6711 | 0.040                      | -0.5499 |
| 0.060                       | -0.7273 | 0.060                    | -0.6699 | 0.060                      | -0.6036 |
| 0.080                       | -0.6974 | 0.080                    | -0.6837 | 0.080                      | -0.6042 |
| 0.100                       | -0.7381 | 0.100                    | -0.6903 | 0.100                      | -0.6082 |
| 0.125                       | -0.6450 | 0.125                    | -0.6595 | 0.125                      | -0.6184 |
| 0.150                       | -0.7069 | 0.150                    | -0.6967 | 0.150                      | -0.6069 |
| 0.175                       | -0.6820 | 0.175                    | -0.7025 | 0.175                      | -0.6407 |
| 0.200                       | -0.7394 | 0.200                    | -0.7289 | 0.200                      | -0.6371 |
| 0.250                       | -0.7429 | 0.250                    | -0.7730 | 0.250                      | -0.6406 |
| 0.300                       | -0.7269 | 0.300                    | -0.7464 | 0.300                      | -0.6216 |
| 0.350                       | -0.6678 | 0.350                    | -0.6500 | 0.350                      | -0.6033 |
| 0.400                       | -0.5852 | 0.400                    | -0.6284 | 0.400                      | -0.5614 |
| 0.450                       | -0.5068 | 0.450                    | -0.5511 | 0.450                      | -0.5280 |
| 0.500                       | -0.4862 | 0.500                    | -0.5168 | 0.500                      | -0.4759 |
| 0.550                       | -0.4140 | 0.550                    | -0.4827 | 0.550                      | -0.4646 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4764 | 0.005 | 0.4846 | 0.005 | 0.4356 |
| 0.010 | 0.2464 | 0.010 | 0.2435 | 0.010 | 0.1386 |

Fight 35 Test point 42

Sweep, deg = 30.5 Mach = 0.75 hp, ft = 30000. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 248.2 Rnpu = 2236000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8305  | 0.000                    | 0.8340  | 0.000                      | 0.8241  |
| 0.005                       | 0.0692  | 0.005                    | 0.1153  | 0.005                      | 0.3544  |
| 0.010                       | -0.1894 | 0.010                    | -0.1057 | 0.010                      | 0.0905  |
| 0.020                       | -0.3870 | 0.020                    | -0.3384 | 0.020                      | -0.2022 |
| 0.040                       | -0.5062 | 0.040                    | -0.4655 | 0.040                      | -0.3612 |
| 0.060                       | -0.5552 | 0.060                    | -0.4917 | 0.060                      | -0.4306 |
| 0.080                       | -0.5720 | 0.080                    | -0.5279 | 0.080                      | -0.4526 |
| 0.100                       | -0.5759 | 0.100                    | -0.5346 | 0.100                      | -0.4695 |
| 0.125                       | -0.5412 | 0.125                    | -0.5388 | 0.125                      | -0.4754 |
| 0.150                       | -0.6064 | 0.150                    | -0.5787 | 0.150                      | -0.4913 |
| 0.175                       | -0.6024 | 0.175                    | -0.5939 | 0.175                      | -0.5258 |
| 0.200                       | -0.6545 | 0.200                    | -0.6098 | 0.200                      | -0.5208 |
| 0.250                       | -0.6470 | 0.250                    | -0.6670 | 0.250                      | -0.5502 |
| 0.300                       | -0.6316 | 0.300                    | -0.6445 | 0.300                      | -0.5436 |
| 0.350                       | -0.5930 | 0.350                    | -0.5880 | 0.350                      | -0.5443 |
| 0.400                       | -0.5402 | 0.400                    | -0.5832 | 0.400                      | -0.5161 |
| 0.450                       | -0.4779 | 0.450                    | -0.5151 | 0.450                      | -0.4945 |
| 0.500                       | -0.4581 | 0.500                    | -0.4959 | 0.500                      | -0.4510 |
| 0.550                       | -0.3954 | 0.550                    | -0.4653 | 0.550                      | -0.4490 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3391 | 0.005 | 0.3478 | 0.005 | 0.2797  |
| 0.010 | 0.0838 | 0.010 | 0.0710 | 0.010 | -0.0572 |

Fight 35 Test point 43

Sweep, deg = 30.4 Mach = 0.75 hp, ft = 29700. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 250.1 Rnpu = 2254000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8208  | 0.000                    | 0.8172  | 0.000                      | 0.8084  |
| 0.005                       | -0.0675 | 0.005                    | -0.0189 | 0.005                      | 0.2408  |
| 0.010                       | -0.3384 | 0.010                    | -0.2455 | 0.010                      | -0.0387 |
| 0.020                       | -0.5173 | 0.020                    | -0.4739 | 0.020                      | -0.3489 |
| 0.040                       | -0.6157 | 0.040                    | -0.5938 | 0.040                      | -0.4825 |
| 0.060                       | -0.6768 | 0.060                    | -0.6124 | 0.060                      | -0.5438 |
| 0.080                       | -0.6681 | 0.080                    | -0.6317 | 0.080                      | -0.5515 |
| 0.100                       | -0.6755 | 0.100                    | -0.6276 | 0.100                      | -0.5564 |
| 0.125                       | -0.6077 | 0.125                    | -0.6211 | 0.125                      | -0.5588 |
| 0.150                       | -0.6775 | 0.150                    | -0.6584 | 0.150                      | -0.5677 |
| 0.175                       | -0.6676 | 0.175                    | -0.6731 | 0.175                      | -0.6033 |
| 0.200                       | -0.7323 | 0.200                    | -0.6901 | 0.200                      | -0.5926 |
| 0.250                       | -0.7002 | 0.250                    | -0.7572 | 0.250                      | -0.6100 |
| 0.300                       | -0.6713 | 0.300                    | -0.7074 | 0.300                      | -0.5989 |
| 0.350                       | -0.6335 | 0.350                    | -0.6295 | 0.350                      | -0.5833 |
| 0.400                       | -0.5713 | 0.400                    | -0.6155 | 0.400                      | -0.5463 |
| 0.450                       | -0.4993 | 0.450                    | -0.5396 | 0.450                      | -0.5113 |
| 0.500                       | -0.4750 | 0.500                    | -0.5160 | 0.500                      | -0.4693 |
| 0.550                       | -0.4077 | 0.550                    | -0.4809 | 0.550                      | -0.4656 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.4428 | 0.005 | 0.4417 | 0.005 | 0.3879 |
| 0.010         | 0.2044 | 0.010 | 0.1916 | 0.010 | 0.0788 |



Fight 35 Test point 44

Sweep, deg = 30.4 Mach = 0.80 hp, ft = 30000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 283.6 Rnpu = 2412000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8427  | 0.000                    | 0.8352  | 0.000                      | 0.8202  |
| 0.005                       | 0.0290  | 0.005                    | 0.0603  | 0.005                      | 0.2909  |
| 0.010                       | -0.2366 | 0.010                    | -0.1595 | 0.010                      | 0.0159  |
| 0.020                       | -0.4452 | 0.020                    | -0.3966 | 0.020                      | -0.2975 |
| 0.040                       | -0.5906 | 0.040                    | -0.5545 | 0.040                      | -0.4469 |
| 0.060                       | -0.5802 | 0.060                    | -0.5911 | 0.060                      | -0.5109 |
| 0.080                       | -0.7271 | 0.080                    | -0.6348 | 0.080                      | -0.5530 |
| 0.100                       | -0.6889 | 0.100                    | -0.6378 | 0.100                      | -0.5318 |
| 0.125                       | -0.6314 | 0.125                    | -0.6282 | 0.125                      | -0.5803 |
| 0.150                       | -0.7048 | 0.150                    | -0.6619 | 0.150                      | -0.6463 |
| 0.175                       | -0.7103 | 0.175                    | -0.6899 | 0.175                      | -0.6931 |
| 0.200                       | -0.7763 | 0.200                    | -0.7270 | 0.200                      | -0.6857 |
| 0.250                       | -0.8358 | 0.250                    | -0.8229 | 0.250                      | -0.7289 |
| 0.300                       | -0.8539 | 0.300                    | -0.8636 | 0.300                      | -0.7718 |
| 0.350                       | -0.7453 | 0.350                    | -0.9001 | 0.350                      | -0.8216 |
| 0.400                       | -0.7714 | 0.400                    | -0.9539 | 0.400                      | -0.8614 |
| 0.450                       | -0.7595 | 0.450                    | -0.9330 | 0.450                      | -0.8957 |
| 0.500                       | -0.4849 | 0.500                    | -0.4748 | 0.500                      | -0.3716 |
| 0.550                       | -0.4044 | 0.550                    | -0.4113 | 0.550                      | -0.3950 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4208 | 0.005 | 0.4235 | 0.005 | 0.3805 |
| 0.010 | 0.1810 | 0.010 | 0.1702 | 0.010 | 0.0705 |

Flight 35 Test point 45

Sweep, deg = 30.4 Mach = 0.81 hp, ft = 30200. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 281.9 Rnpu = 2397000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8497  | 0.000                    | 0.8521  | 0.000                      | 0.8309  |
| 0.005                       | 0.1711  | 0.005                    | 0.2074  | 0.005                      | 0.4131  |
| 0.010                       | -0.0877 | 0.010                    | -0.0076 | 0.010                      | 0.1602  |
| 0.020                       | -0.3007 | 0.020                    | -0.2434 | 0.020                      | -0.1406 |
| 0.040                       | -0.4292 | 0.040                    | -0.3943 | 0.040                      | -0.3041 |
| 0.060                       | -0.5204 | 0.060                    | -0.4514 | 0.060                      | -0.3960 |
| 0.080                       | -0.5025 | 0.080                    | -0.4971 | 0.080                      | -0.4276 |
| 0.100                       | -0.5626 | 0.100                    | -0.5251 | 0.100                      | -0.4576 |
| 0.125                       | -0.5297 | 0.125                    | -0.5142 | 0.125                      | -0.5135 |
| 0.150                       | -0.6174 | 0.150                    | -0.5687 | 0.150                      | -0.5488 |
| 0.175                       | -0.6349 | 0.175                    | -0.6170 | 0.175                      | -0.5569 |
| 0.200                       | -0.6600 | 0.200                    | -0.6299 | 0.200                      | -0.5441 |
| 0.250                       | -0.6871 | 0.250                    | -0.7422 | 0.250                      | -0.6585 |
| 0.300                       | -0.7449 | 0.300                    | -0.7765 | 0.300                      | -0.6913 |
| 0.350                       | -0.7350 | 0.350                    | -0.8125 | 0.350                      | -0.7337 |
| 0.400                       | -0.7190 | 0.400                    | -0.8613 | 0.400                      | -0.7697 |
| 0.450                       | -0.6997 | 0.450                    | -0.8017 | 0.450                      | -0.4407 |
| 0.500                       | -0.4536 | 0.500                    | -0.4302 | 0.500                      | -0.4098 |
| 0.550                       | -0.4009 | 0.550                    | -0.4289 | 0.550                      | -0.4254 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3020 | 0.005 | 0.3047 | 0.005 | 0.2532  |
| 0.010 | 0.0372 | 0.010 | 0.0272 | 0.010 | -0.0925 |

Flight 35 Test point 46

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 29900. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 281.0 Rnpu = 2402000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9303  | 0.000                    | 0.9350  | 0.000                      | 0.9217  |
| 0.005                       | 0.1492  | 0.005                    | 0.2046  | 0.005                      | 0.4366  |
| 0.010                       | -0.1304 | 0.010                    | -0.0384 | 0.010                      | 0.1543  |
| 0.020                       | -0.3505 | 0.020                    | -0.2886 | 0.020                      | -0.1785 |
| 0.040                       | -0.5183 | 0.040                    | -0.4751 | 0.040                      | -0.3625 |
| 0.060                       | -0.5661 | 0.060                    | -0.5300 | 0.060                      | -0.4665 |
| 0.080                       | -0.6915 | 0.080                    | -0.5777 | 0.080                      | -0.4939 |
| 0.100                       | -0.6351 | 0.100                    | -0.6013 | 0.100                      | -0.5059 |
| 0.125                       | -0.6254 | 0.125                    | -0.5987 | 0.125                      | -0.5400 |
| 0.150                       | -0.7058 | 0.150                    | -0.6218 | 0.150                      | -0.6165 |
| 0.175                       | -0.7097 | 0.175                    | -0.6672 | 0.175                      | -0.6603 |
| 0.200                       | -0.7899 | 0.200                    | -0.7044 | 0.200                      | -0.6452 |
| 0.250                       | -0.8546 | 0.250                    | -0.8233 | 0.250                      | -0.7067 |
| 0.300                       | -0.9122 | 0.300                    | -0.8755 | 0.300                      | -0.7623 |
| 0.350                       | -0.9212 | 0.350                    | -0.9294 | 0.350                      | -0.8406 |
| 0.400                       | -0.9220 | 0.400                    | -0.9939 | 0.400                      | -0.8780 |
| 0.450                       | -0.8140 | 0.450                    | -1.0008 | 0.450                      | -0.9456 |
| 0.500                       | -0.7682 | 0.500                    | -1.0498 | 0.500                      | -0.9553 |
| 0.550                       | -0.4089 | 0.550                    | -0.6143 | 0.550                      | -0.5755 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4020 | 0.005 | 0.4009 | 0.005 | 0.3494  |
| 0.010 | 0.1296 | 0.010 | 0.1059 | 0.010 | -0.0157 |

Fight 35 Test point 47

Sweep, deg = 25.4 Mach = 0.80 hp, ft = 30100. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 280.5 Rnpu = 2394000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9331  | 0.000                    | 0.9390  | 0.000                      | 0.9220  |
| 0.005                       | 0.2432  | 0.005                    | 0.3037  | 0.005                      | 0.5089  |
| 0.010                       | -0.0268 | 0.010                    | 0.0662  | 0.010                      | 0.2480  |
| 0.020                       | -0.2498 | 0.020                    | -0.1903 | 0.020                      | -0.0748 |
| 0.040                       | -0.4202 | 0.040                    | -0.3752 | 0.040                      | -0.2670 |
| 0.060                       | -0.5081 | 0.060                    | -0.4408 | 0.060                      | -0.3742 |
| 0.080                       | -0.5292 | 0.080                    | -0.4873 | 0.080                      | -0.4159 |
| 0.100                       | -0.5776 | 0.100                    | -0.5144 | 0.100                      | -0.4447 |
| 0.125                       | -0.5440 | 0.125                    | -0.5371 | 0.125                      | -0.4857 |
| 0.150                       | -0.6308 | 0.150                    | -0.5690 | 0.150                      | -0.5573 |
| 0.175                       | -0.6575 | 0.175                    | -0.6306 | 0.175                      | -0.5703 |
| 0.200                       | -0.7357 | 0.200                    | -0.6656 | 0.200                      | -0.5832 |
| 0.250                       | -0.8012 | 0.250                    | -0.7657 | 0.250                      | -0.6659 |
| 0.300                       | -0.8630 | 0.300                    | -0.8157 | 0.300                      | -0.7201 |
| 0.350                       | -0.8567 | 0.350                    | -0.8689 | 0.350                      | -0.7850 |
| 0.400                       | -0.8058 | 0.400                    | -0.9417 | 0.400                      | -0.8260 |
| 0.450                       | -0.7416 | 0.450                    | -0.9459 | 0.450                      | -0.8850 |
| 0.500                       | -0.7789 | 0.500                    | -0.9907 | 0.500                      | -0.8973 |
| 0.550                       | -0.4020 | 0.550                    | -0.5372 | 0.550                      | -0.4677 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3131 | 0.005 | 0.3188 | 0.005 | 0.2600  |
| 0.010 | 0.0315 | 0.010 | 0.0020 | 0.010 | -0.1267 |

Fight 35 Test point 48

Sweep, deg = 20.1 Mach = 0.80 hp, ft = 30000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 281.8 Rnpu = 2403000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0074  | 0.000                    | 1.0279  | 0.000                      | 1.0039  |
| 0.005                       | 0.3149  | 0.005                    | 0.3862  | 0.005                      | 0.6025  |
| 0.010                       | 0.0335  | 0.010                    | 0.1365  | 0.010                      | 0.3327  |
| 0.020                       | -0.2006 | 0.020                    | -0.1338 | 0.020                      | -0.0152 |
| 0.040                       | -0.3975 | 0.040                    | -0.3351 | 0.040                      | -0.2169 |
| 0.060                       | -0.4852 | 0.060                    | -0.4121 | 0.060                      | -0.3392 |
| 0.080                       | -0.5770 | 0.080                    | -0.4666 | 0.080                      | -0.3826 |
| 0.100                       | -0.5824 | 0.100                    | -0.4978 | 0.100                      | -0.4193 |
| 0.125                       | -0.5814 | 0.125                    | -0.5194 | 0.125                      | -0.4523 |
| 0.150                       | -0.6398 | 0.150                    | -0.5606 | 0.150                      | -0.5277 |
| 0.175                       | -0.6759 | 0.175                    | -0.6114 | 0.175                      | -0.5332 |
| 0.200                       | -0.7570 | 0.200                    | -0.6591 | 0.200                      | -0.5728 |
| 0.250                       | -0.8445 | 0.250                    | -0.7767 | 0.250                      | -0.6450 |
| 0.300                       | -0.9140 | 0.300                    | -0.8299 | 0.300                      | -0.7325 |
| 0.350                       | -0.9066 | 0.350                    | -0.8899 | 0.350                      | -0.8062 |
| 0.400                       | -0.9205 | 0.400                    | -0.9690 | 0.400                      | -0.8410 |
| 0.450                       | -0.9408 | 0.450                    | -0.9795 | 0.450                      | -0.9057 |
| 0.500                       | -1.0396 | 0.500                    | -1.0381 | 0.500                      | -0.9317 |
| 0.550                       | -0.4742 | 0.550                    | -0.8589 | 0.550                      | -0.9061 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.3358 | 0.005 | 0.3409 | 0.005 | 0.2757  |
| 0.010         | 0.0360 | 0.010 | 0.0047 | 0.010 | -0.1400 |

Fight 35 Test point 49

Sweep, deg = 20.1 Mach = 0.80 hp, ft = 30000. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 280.6 Rnpu = 2395000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0566  | 0.000                    | 1.0897  | 0.000                      | 1.0659  |
| 0.005                       | 0.3015  | 0.005                    | 0.4016  | 0.005                      | 0.6344  |
| 0.010                       | 0.0163  | 0.010                    | 0.1409  | 0.010                      | 0.3503  |
| 0.020                       | -0.2245 | 0.020                    | -0.1320 | 0.020                      | -0.0049 |
| 0.040                       | -0.4342 | 0.040                    | -0.3443 | 0.040                      | -0.2103 |
| 0.060                       | -0.5129 | 0.060                    | -0.4227 | 0.060                      | -0.3396 |
| 0.080                       | -0.6046 | 0.080                    | -0.4798 | 0.080                      | -0.3866 |
| 0.100                       | -0.5822 | 0.100                    | -0.5154 | 0.100                      | -0.4222 |
| 0.125                       | -0.5904 | 0.125                    | -0.5241 | 0.125                      | -0.4494 |
| 0.150                       | -0.6769 | 0.150                    | -0.5588 | 0.150                      | -0.5144 |
| 0.175                       | -0.6899 | 0.175                    | -0.6193 | 0.175                      | -0.5383 |
| 0.200                       | -0.7843 | 0.200                    | -0.6651 | 0.200                      | -0.5670 |
| 0.250                       | -0.8738 | 0.250                    | -0.7911 | 0.250                      | -0.6441 |
| 0.300                       | -0.9578 | 0.300                    | -0.8503 | 0.300                      | -0.7400 |
| 0.350                       | -0.9673 | 0.350                    | -0.9059 | 0.350                      | -0.8081 |
| 0.400                       | -0.9896 | 0.400                    | -0.9828 | 0.400                      | -0.8474 |
| 0.450                       | -0.9988 | 0.450                    | -1.0121 | 0.450                      | -0.8940 |
| 0.500                       | -1.0894 | 0.500                    | -1.0653 | 0.500                      | -0.9206 |
| 0.550                       | -0.4076 | 0.550                    | -0.8850 | 0.550                      | -0.8914 |

| Lower surface |        |       |        |       |         |
|---------------|--------|-------|--------|-------|---------|
| 0.005         | 0.4207 | 0.005 | 0.4096 | 0.005 | 0.3367  |
| 0.010         | 0.1245 | 0.010 | 0.0709 | 0.010 | -0.0817 |

Fight 35 Test point 50

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 30200. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 280.3 Rnpu = 2391000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0046  | 0.000                    | 1.0259  | 0.000                      | 1.0052  |
| 0.005                       | 0.3014  | 0.005                    | 0.3746  | 0.005                      | 0.5888  |
| 0.010                       | 0.0190  | 0.010                    | 0.1274  | 0.010                      | 0.3167  |
| 0.020                       | -0.2195 | 0.020                    | -0.1466 | 0.020                      | -0.0221 |
| 0.040                       | -0.4129 | 0.040                    | -0.3450 | 0.040                      | -0.2290 |
| 0.060                       | -0.4970 | 0.060                    | -0.4233 | 0.060                      | -0.3496 |
| 0.080                       | -0.6050 | 0.080                    | -0.4765 | 0.080                      | -0.3935 |
| 0.100                       | -0.5890 | 0.100                    | -0.5060 | 0.100                      | -0.4289 |
| 0.125                       | -0.5854 | 0.125                    | -0.5314 | 0.125                      | -0.4614 |
| 0.150                       | -0.6502 | 0.150                    | -0.5629 | 0.150                      | -0.5343 |
| 0.175                       | -0.6832 | 0.175                    | -0.6232 | 0.175                      | -0.5560 |
| 0.200                       | -0.7687 | 0.200                    | -0.6652 | 0.200                      | -0.5733 |
| 0.250                       | -0.8498 | 0.250                    | -0.7881 | 0.250                      | -0.6484 |
| 0.300                       | -0.9221 | 0.300                    | -0.8430 | 0.300                      | -0.7380 |
| 0.350                       | -0.9267 | 0.350                    | -0.8978 | 0.350                      | -0.8131 |
| 0.400                       | -0.9185 | 0.400                    | -0.9816 | 0.400                      | -0.8506 |
| 0.450                       | -0.9431 | 0.450                    | -0.9922 | 0.450                      | -0.9187 |
| 0.500                       | -1.0464 | 0.500                    | -1.0478 | 0.500                      | -0.9412 |
| 0.550                       | -0.4918 | 0.550                    | -0.6980 | 0.550                      | -0.9126 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3470 | 0.005 | 0.3526 | 0.005 | 0.2827  |
| 0.010 | 0.0498 | 0.010 | 0.0178 | 0.010 | -0.1268 |

Fight 35 Test point 51

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 30000. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 283.9 Rnpu = 2412000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9998  | 0.000                    | 1.0221  | 0.000                      | 1.0056  |
| 0.005                       | 0.1692  | 0.005                    | 0.2530  | 0.005                      | 0.4934  |
| 0.010                       | -0.1199 | 0.010                    | -0.0070 | 0.010                      | 0.2043  |
| 0.020                       | -0.3492 | 0.020                    | -0.2730 | 0.020                      | -0.1509 |
| 0.040                       | -0.5644 | 0.040                    | -0.4692 | 0.040                      | -0.3482 |
| 0.060                       | -0.6275 | 0.060                    | -0.5346 | 0.060                      | -0.4677 |
| 0.080                       | -0.6560 | 0.080                    | -0.5965 | 0.080                      | -0.5018 |
| 0.100                       | -0.6964 | 0.100                    | -0.6289 | 0.100                      | -0.5208 |
| 0.125                       | -0.6671 | 0.125                    | -0.6386 | 0.125                      | -0.5219 |
| 0.150                       | -0.7535 | 0.150                    | -0.6692 | 0.150                      | -0.5983 |
| 0.175                       | -0.7585 | 0.175                    | -0.6908 | 0.175                      | -0.6525 |
| 0.200                       | -0.8319 | 0.200                    | -0.7215 | 0.200                      | -0.6745 |
| 0.250                       | -0.9203 | 0.250                    | -0.8332 | 0.250                      | -0.7267 |
| 0.300                       | -1.0049 | 0.300                    | -0.8932 | 0.300                      | -0.8025 |
| 0.350                       | -1.0061 | 0.350                    | -0.9556 | 0.350                      | -0.8685 |
| 0.400                       | -1.0137 | 0.400                    | -1.0377 | 0.400                      | -0.9064 |
| 0.450                       | -1.0076 | 0.450                    | -1.0521 | 0.450                      | -0.9646 |
| 0.500                       | -1.0926 | 0.500                    | -0.8691 | 0.500                      | -1.0003 |
| 0.550                       | -0.4420 | 0.550                    | -0.5877 | 0.550                      | -0.9217 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4786 | 0.005 | 0.4707 | 0.005 | 0.4097 |
| 0.010 | 0.2006 | 0.010 | 0.1591 | 0.010 | 0.0312 |



Fight 35 Test point 52

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 29500. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -5.2 QBAR, lb/ft<sup>2</sup> = 289.7 Rnpu = 2450000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0604  | 0.000                    | 1.0871  | 0.000                      | 1.0718  |
| 0.005                       | 0.2449  | 0.005                    | 0.3507  | 0.005                      | 0.5951  |
| 0.010                       | -0.0425 | 0.010                    | 0.0876  | 0.010                      | 0.3048  |
| 0.020                       | -0.2773 | 0.020                    | -0.1894 | 0.020                      | -0.0542 |
| 0.040                       | -0.4894 | 0.040                    | -0.3923 | 0.040                      | -0.2590 |
| 0.060                       | -0.5544 | 0.060                    | -0.4720 | 0.060                      | -0.3834 |
| 0.080                       | -0.6261 | 0.080                    | -0.5300 | 0.080                      | -0.4265 |
| 0.100                       | -0.6700 | 0.100                    | -0.5619 | 0.100                      | -0.4593 |
| 0.125                       | -0.6421 | 0.125                    | -0.5595 | 0.125                      | -0.4753 |
| 0.150                       | -0.7248 | 0.150                    | -0.6166 | 0.150                      | -0.5345 |
| 0.175                       | -0.7316 | 0.175                    | -0.6404 | 0.175                      | -0.5972 |
| 0.200                       | -0.8106 | 0.200                    | -0.6869 | 0.200                      | -0.5959 |
| 0.250                       | -0.9061 | 0.250                    | -0.8103 | 0.250                      | -0.6791 |
| 0.300                       | -0.9813 | 0.300                    | -0.8716 | 0.300                      | -0.7479 |
| 0.350                       | -0.9968 | 0.350                    | -0.9281 | 0.350                      | -0.8259 |
| 0.400                       | -1.0207 | 0.400                    | -1.0052 | 0.400                      | -0.8659 |
| 0.450                       | -1.0337 | 0.450                    | -1.0324 | 0.450                      | -0.9134 |
| 0.500                       | -1.0695 | 0.500                    | -1.0845 | 0.500                      | -0.9455 |
| 0.550                       | -0.4058 | 0.550                    | -0.9648 | 0.550                      | -0.9198 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.4819 | 0.005 | 0.4673 | 0.005 | 0.3976  |
| 0.010 | 0.1965 | 0.010 | 0.1366 | 0.010 | -0.0113 |

Fight 35 Test point 53

Sweep, deg = 20.0 Mach = 0.81 hp, ft = 35000. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 225.8 Rnpu = 1994000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0050  | 0.000                    | 1.0234  | 0.000                      | 1.0078  |
| 0.005                       | 0.1783  | 0.005                    | 0.2603  | 0.005                      | 0.4963  |
| 0.010                       | -0.1096 | 0.010                    | 0.0029  | 0.010                      | 0.2081  |
| 0.020                       | -0.3327 | 0.020                    | -0.2629 | 0.020                      | -0.1446 |
| 0.040                       | -0.5507 | 0.040                    | -0.4636 | 0.040                      | -0.3369 |
| 0.060                       | -0.6122 | 0.060                    | -0.5212 | 0.060                      | -0.4572 |
| 0.080                       | -0.6532 | 0.080                    | -0.5827 | 0.080                      | -0.4935 |
| 0.100                       | -0.6847 | 0.100                    | -0.6220 | 0.100                      | -0.5163 |
| 0.125                       | -0.6577 | 0.125                    | -0.6295 | 0.125                      | -0.5203 |
| 0.150                       | -0.7394 | 0.150                    | -0.6555 | 0.150                      | -0.5925 |
| 0.175                       | -0.7529 | 0.175                    | -0.6864 | 0.175                      | -0.6420 |
| 0.200                       | -0.8295 | 0.200                    | -0.7203 | 0.200                      | -0.6678 |
| 0.250                       | -0.9150 | 0.250                    | -0.8293 | 0.250                      | -0.7235 |
| 0.300                       | -0.9984 | 0.300                    | -0.8965 | 0.300                      | -0.7991 |
| 0.350                       | -0.9927 | 0.350                    | -0.9474 | 0.350                      | -0.8680 |
| 0.400                       | -1.0024 | 0.400                    | -1.0267 | 0.400                      | -0.9064 |
| 0.450                       | -0.9909 | 0.450                    | -1.0147 | 0.450                      | -0.9618 |
| 0.500                       | -0.9009 | 0.500                    | -0.5527 | 0.500                      | -0.9858 |
| 0.550                       | -0.4312 | 0.550                    | -0.3934 | 0.550                      | -0.8940 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4710 | 0.005 | 0.4705 | 0.005 | 0.4125 |
| 0.010 | 0.1920 | 0.010 | 0.1561 | 0.010 | 0.0278 |

Fight 35 Test point 54

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 34800. Angle of attack, deg = 2.3  
 Angle of sideslip, deg = -5.2 QBAR, lb/ft<sup>2</sup> = 222.9 Rnpu = 1983000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0498  | 0.000                    | 1.0854  | 0.000                      | 1.0687  |
| 0.005                       | 0.1515  | 0.005                    | 0.2621  | 0.005                      | 0.5205  |
| 0.010                       | -0.1443 | 0.010                    | -0.0123 | 0.010                      | 0.2072  |
| 0.020                       | -0.3750 | 0.020                    | -0.2856 | 0.020                      | -0.1568 |
| 0.040                       | -0.5937 | 0.040                    | -0.4917 | 0.040                      | -0.3509 |
| 0.060                       | -0.6578 | 0.060                    | -0.5515 | 0.060                      | -0.4836 |
| 0.080                       | -0.6564 | 0.080                    | -0.6091 | 0.080                      | -0.5133 |
| 0.100                       | -0.7742 | 0.100                    | -0.6448 | 0.100                      | -0.5405 |
| 0.125                       | -0.6948 | 0.125                    | -0.6503 | 0.125                      | -0.5252 |
| 0.150                       | -0.7956 | 0.150                    | -0.6731 | 0.150                      | -0.5915 |
| 0.175                       | -0.7889 | 0.175                    | -0.7186 | 0.175                      | -0.6438 |
| 0.200                       | -0.8731 | 0.200                    | -0.7503 | 0.200                      | -0.6870 |
| 0.250                       | -0.9578 | 0.250                    | -0.8589 | 0.250                      | -0.7448 |
| 0.300                       | -1.0336 | 0.300                    | -0.9182 | 0.300                      | -0.7966 |
| 0.350                       | -1.0454 | 0.350                    | -0.9740 | 0.350                      | -0.8728 |
| 0.400                       | -1.0561 | 0.400                    | -1.0507 | 0.400                      | -0.9143 |
| 0.450                       | -0.7487 | 0.450                    | -1.0388 | 0.450                      | -0.9617 |
| 0.500                       | -0.5111 | 0.500                    | -0.6715 | 0.500                      | -0.9824 |
| 0.550                       | -0.4400 | 0.550                    | -0.3704 | 0.550                      | -0.9358 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.5544 | 0.005 | 0.5501 | 0.005 | 0.4826 |
| 0.010 | 0.2860 | 0.010 | 0.2323 | 0.010 | 0.0940 |

Fight 35 Test point 55

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 35800. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 215.1 Rnpu = 1914000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 1.0065  | 0.000                    | 1.0258  | 0.000                      | 1.0099  |
| 0.005                       | 0.2907  | 0.005                    | 0.3664  | 0.005                      | 0.5847  |
| 0.010                       | 0.0128  | 0.010                    | 0.1223  | 0.010                      | 0.3086  |
| 0.020                       | -0.2204 | 0.020                    | -0.1545 | 0.020                      | -0.0282 |
| 0.040                       | -0.4164 | 0.040                    | -0.3490 | 0.040                      | -0.2402 |
| 0.060                       | -0.5021 | 0.060                    | -0.4261 | 0.060                      | -0.3535 |
| 0.080                       | -0.6041 | 0.080                    | -0.4771 | 0.080                      | -0.4008 |
| 0.100                       | -0.5943 | 0.100                    | -0.5105 | 0.100                      | -0.4347 |
| 0.125                       | -0.5920 | 0.125                    | -0.5335 | 0.125                      | -0.4680 |
| 0.150                       | -0.6481 | 0.150                    | -0.5615 | 0.150                      | -0.5376 |
| 0.175                       | -0.6869 | 0.175                    | -0.6229 | 0.175                      | -0.5584 |
| 0.200                       | -0.7712 | 0.200                    | -0.6731 | 0.200                      | -0.5811 |
| 0.250                       | -0.8557 | 0.250                    | -0.7821 | 0.250                      | -0.6551 |
| 0.300                       | -0.9242 | 0.300                    | -0.8470 | 0.300                      | -0.7408 |
| 0.350                       | -0.9243 | 0.350                    | -0.9000 | 0.350                      | -0.8095 |
| 0.400                       | -0.9242 | 0.400                    | -0.9789 | 0.400                      | -0.8529 |
| 0.450                       | -0.9429 | 0.450                    | -0.9956 | 0.450                      | -0.9166 |
| 0.500                       | -1.0465 | 0.500                    | -1.0516 | 0.500                      | -0.9373 |
| 0.550                       | -0.4653 | 0.550                    | -0.9585 | 0.550                      | -0.9003 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3546 | 0.005 | 0.3612 | 0.005 | 0.2992  |
| 0.010 | 0.0584 | 0.010 | 0.0268 | 0.010 | -0.1096 |

Fight 35 Test point 56

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 36100. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 212.1 Rnpu = 1892000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9996  | 0.000                    | 1.0223  | 0.000                      | 1.0076  |
| 0.005                       | 0.1731  | 0.005                    | 0.2512  | 0.005                      | 0.4913  |
| 0.010                       | -0.1194 | 0.010                    | -0.0042 | 0.010                      | 0.1969  |
| 0.020                       | -0.3405 | 0.020                    | -0.2752 | 0.020                      | -0.1538 |
| 0.040                       | -0.5494 | 0.040                    | -0.4678 | 0.040                      | -0.3449 |
| 0.060                       | -0.6053 | 0.060                    | -0.5356 | 0.060                      | -0.4656 |
| 0.080                       | -0.6694 | 0.080                    | -0.5911 | 0.080                      | -0.5047 |
| 0.100                       | -0.6906 | 0.100                    | -0.6251 | 0.100                      | -0.5247 |
| 0.125                       | -0.6640 | 0.125                    | -0.6320 | 0.125                      | -0.5265 |
| 0.150                       | -0.7425 | 0.150                    | -0.6545 | 0.150                      | -0.6039 |
| 0.175                       | -0.7519 | 0.175                    | -0.6880 | 0.175                      | -0.6464 |
| 0.200                       | -0.8373 | 0.200                    | -0.7234 | 0.200                      | -0.6644 |
| 0.250                       | -0.9209 | 0.250                    | -0.8425 | 0.250                      | -0.7281 |
| 0.300                       | -1.0047 | 0.300                    | -0.9075 | 0.300                      | -0.8025 |
| 0.350                       | -0.9979 | 0.350                    | -0.9554 | 0.350                      | -0.8748 |
| 0.400                       | -0.9994 | 0.400                    | -1.0305 | 0.400                      | -0.9104 |
| 0.450                       | -0.9962 | 0.450                    | -1.0467 | 0.450                      | -0.9704 |
| 0.500                       | -1.0676 | 0.500                    | -0.8310 | 0.500                      | -0.9859 |
| 0.550                       | -0.4482 | 0.550                    | -0.4212 | 0.550                      | -0.9335 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4644 | 0.005 | 0.4680 | 0.005 | 0.4136 |
| 0.010 | 0.1905 | 0.010 | 0.1629 | 0.010 | 0.0271 |

Fight 35 Test point 57

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 223.2 Rnpu = 1982000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9239  | 0.000                    | 0.9356  | 0.000                      | 0.9180  |
| 0.005                       | 0.9987  | 0.005                    | 0.1538  | 0.005                      | 0.3905  |
| 0.010                       | -0.1816 | 0.010                    | -0.0846 | 0.010                      | 0.0986  |
| 0.020                       | -0.3987 | 0.020                    | -0.3387 | 0.020                      | -0.2290 |
| 0.040                       | -0.5806 | 0.040                    | -0.5203 | 0.040                      | -0.4082 |
| 0.060                       | -0.5834 | 0.060                    | -0.5744 | 0.060                      | -0.5148 |
| 0.080                       | -0.7110 | 0.080                    | -0.6230 | 0.080                      | -0.5441 |
| 0.100                       | -0.6854 | 0.100                    | -0.6531 | 0.100                      | -0.5425 |
| 0.125                       | -0.6519 | 0.125                    | -0.6471 | 0.125                      | -0.5505 |
| 0.150                       | -0.7301 | 0.150                    | -0.6576 | 0.150                      | -0.6398 |
| 0.175                       | -0.7416 | 0.175                    | -0.6980 | 0.175                      | -0.6805 |
| 0.200                       | -0.8279 | 0.200                    | -0.7288 | 0.200                      | -0.6852 |
| 0.250                       | -0.8919 | 0.250                    | -0.8526 | 0.250                      | -0.7345 |
| 0.300                       | -0.9382 | 0.300                    | -0.9028 | 0.300                      | -0.8011 |
| 0.350                       | -0.9367 | 0.350                    | -0.9411 | 0.350                      | -0.8645 |
| 0.400                       | -0.9407 | 0.400                    | -1.0194 | 0.400                      | -0.9033 |
| 0.450                       | -0.9331 | 0.450                    | -1.0235 | 0.450                      | -0.9727 |
| 0.500                       | -0.7152 | 0.500                    | -1.0750 | 0.500                      | -0.9845 |
| 0.550                       | -0.4061 | 0.550                    | -0.5278 | 0.550                      | -0.5325 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4423 | 0.005 | 0.4505 | 0.005 | 0.4046 |
| 0.010 | 0.1844 | 0.010 | 0.1638 | 0.010 | 0.0527 |

Fight 35 Test point 58

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 35800. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 214.7 Rnpu = 1910000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9301  | 0.000                    | 0.9406  | 0.000                      | 0.9259  |
| 0.005                       | 0.1929  | 0.005                    | 0.2396  | 0.005                      | 0.4572  |
| 0.010                       | -0.0871 | 0.010                    | 0.0054  | 0.010                      | 0.1893  |
| 0.020                       | -0.3052 | 0.020                    | -0.2503 | 0.020                      | -0.1370 |
| 0.040                       | -0.4702 | 0.040                    | -0.4370 | 0.040                      | -0.3266 |
| 0.060                       | -0.5416 | 0.060                    | -0.4916 | 0.060                      | -0.4275 |
| 0.080                       | -0.6553 | 0.080                    | -0.5339 | 0.080                      | -0.4597 |
| 0.100                       | -0.6094 | 0.100                    | -0.5613 | 0.100                      | -0.4832 |
| 0.125                       | -0.5937 | 0.125                    | -0.5770 | 0.125                      | -0.5185 |
| 0.150                       | -0.6615 | 0.150                    | -0.5898 | 0.150                      | -0.5810 |
| 0.175                       | -0.6862 | 0.175                    | -0.6552 | 0.175                      | -0.6230 |
| 0.200                       | -0.7601 | 0.200                    | -0.6977 | 0.200                      | -0.6135 |
| 0.250                       | -0.8361 | 0.250                    | -0.8093 | 0.250                      | -0.6857 |
| 0.300                       | -0.8882 | 0.300                    | -0.8525 | 0.300                      | -0.7439 |
| 0.350                       | -0.8921 | 0.350                    | -0.8960 | 0.350                      | -0.8136 |
| 0.400                       | -0.8787 | 0.400                    | -0.9652 | 0.400                      | -0.8553 |
| 0.450                       | -0.7272 | 0.450                    | -0.9657 | 0.450                      | -0.9202 |
| 0.500                       | -0.7221 | 0.500                    | -1.0218 | 0.500                      | -0.9212 |
| 0.550                       | -0.4022 | 0.550                    | -0.5845 | 0.550                      | -0.5165 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3690 | 0.005 | 0.3762 | 0.005 | 0.3271  |
| 0.010 | 0.0934 | 0.010 | 0.0741 | 0.010 | -0.0391 |

Fight 35 Test point 59

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 36100. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 212.2 Rnpu = 1885000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9262  | 0.000                    | 0.9313  | 0.000                      | 0.9188  |
| 0.005                       | 0.0968  | 0.005                    | 0.1482  | 0.005                      | 0.3867  |
| 0.010                       | -0.1853 | 0.010                    | -0.0864 | 0.010                      | 0.0986  |
| 0.020                       | -0.3999 | 0.020                    | -0.3438 | 0.020                      | -0.2322 |
| 0.040                       | -0.5863 | 0.040                    | -0.5248 | 0.040                      | -0.4136 |
| 0.060                       | -0.5883 | 0.060                    | -0.5767 | 0.060                      | -0.5191 |
| 0.080                       | -0.7037 | 0.080                    | -0.6240 | 0.080                      | -0.5497 |
| 0.100                       | -0.6844 | 0.100                    | -0.6543 | 0.100                      | -0.5482 |
| 0.125                       | -0.6547 | 0.125                    | -0.6515 | 0.125                      | -0.5523 |
| 0.150                       | -0.7294 | 0.150                    | -0.6652 | 0.150                      | -0.6402 |
| 0.175                       | -0.7421 | 0.175                    | -0.6955 | 0.175                      | -0.6802 |
| 0.200                       | -0.8262 | 0.200                    | -0.7296 | 0.200                      | -0.6870 |
| 0.250                       | -0.8909 | 0.250                    | -0.8524 | 0.250                      | -0.7301 |
| 0.300                       | -0.9408 | 0.300                    | -0.9041 | 0.300                      | -0.7973 |
| 0.350                       | -0.9464 | 0.350                    | -0.9454 | 0.350                      | -0.8708 |
| 0.400                       | -0.9438 | 0.400                    | -1.0225 | 0.400                      | -0.9052 |
| 0.450                       | -0.9426 | 0.450                    | -1.0205 | 0.450                      | -0.9703 |
| 0.500                       | -0.7217 | 0.500                    | -1.0807 | 0.500                      | -0.9857 |
| 0.550                       | -0.4041 | 0.550                    | -0.4860 | 0.550                      | -0.5178 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4464 | 0.005 | 0.4577 | 0.005 | 0.4107 |
| 0.010 | 0.1913 | 0.010 | 0.1694 | 0.010 | 0.0633 |



Fight 35 Test point 60

Sweep, deg = 30.0 Mach = 0.80 hp, ft = 34800. Angle of attack, deg = 2.3  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 224.0 Rnpu = 1979000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8140  | 0.000                    | 0.8059  | 0.000                      | 0.7999  |
| 0.005                       | -0.1261 | 0.005                    | -0.0935 | 0.005                      | 0.1518  |
| 0.010                       | -0.4090 | 0.010                    | -0.3231 | 0.010                      | -0.1443 |
| 0.020                       | -0.6142 | 0.020                    | -0.5507 | 0.020                      | -0.4733 |
| 0.040                       | -0.6862 | 0.040                    | -0.6926 | 0.040                      | -0.6087 |
| 0.060                       | -0.7651 | 0.060                    | -0.7207 | 0.060                      | -0.7443 |
| 0.080                       | -0.7674 | 0.080                    | -0.7685 | 0.080                      | -0.7364 |
| 0.100                       | -0.7679 | 0.100                    | -0.7924 | 0.100                      | -0.7421 |
| 0.125                       | -0.7237 | 0.125                    | -0.7864 | 0.125                      | -0.6949 |
| 0.150                       | -0.7910 | 0.150                    | -0.7925 | 0.150                      | -0.6729 |
| 0.175                       | -0.7895 | 0.175                    | -0.8072 | 0.175                      | -0.7483 |
| 0.200                       | -0.8666 | 0.200                    | -0.8104 | 0.200                      | -0.7574 |
| 0.250                       | -0.9063 | 0.250                    | -0.8976 | 0.250                      | -0.8050 |
| 0.300                       | -0.9697 | 0.300                    | -0.9433 | 0.300                      | -0.8616 |
| 0.350                       | -0.9272 | 0.350                    | -0.9646 | 0.350                      | -0.9065 |
| 0.400                       | -0.7598 | 0.400                    | -1.0255 | 0.400                      | -0.9301 |
| 0.450                       | -0.7623 | 0.450                    | -1.0262 | 0.450                      | -0.9815 |
| 0.500                       | -0.4830 | 0.500                    | -0.5469 | 0.500                      | -0.4566 |
| 0.550                       | -0.3972 | 0.550                    | -0.4069 | 0.550                      | -0.3632 |

| Lower surface               |        |                          |        |                            |        |
|-----------------------------|--------|--------------------------|--------|----------------------------|--------|
| BL 200.8<br>Inboard station |        | BL 260<br>Middle station |        | BL 320<br>Outboard station |        |
| x/c                         | Cp     | x/c                      | Cp     | x/c                        | Cp     |
| 0.005                       | 0.5214 | 0.005                    | 0.5281 | 0.005                      | 0.5018 |
| 0.010                       | 0.3032 | 0.010                    | 0.3014 | 0.010                      | 0.2210 |

Fight 35 Test point 61

Sweep, deg = 30.0 Mach = 0.81 hp, ft = 35300. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 223.0 Rnpu = 1964000.

| Upper surface               |         |                          |         |                            |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8498  | 0.000                    | 0.8444  | 0.000                      | 0.8299  |
| 0.005                       | 0.0795  | 0.005                    | 0.1079  | 0.005                      | 0.3288  |
| 0.010                       | -0.1916 | 0.010                    | -0.1108 | 0.010                      | 0.0603  |
| 0.020                       | -0.3960 | 0.020                    | -0.3450 | 0.020                      | -0.2432 |
| 0.040                       | -0.5244 | 0.040                    | -0.5182 | 0.040                      | -0.4088 |
| 0.060                       | -0.5795 | 0.060                    | -0.5529 | 0.060                      | -0.4994 |
| 0.080                       | -0.6883 | 0.080                    | -0.5836 | 0.080                      | -0.5143 |
| 0.100                       | -0.6262 | 0.100                    | -0.6012 | 0.100                      | -0.5084 |
| 0.125                       | -0.5862 | 0.125                    | -0.6027 | 0.125                      | -0.5502 |
| 0.150                       | -0.6634 | 0.150                    | -0.6173 | 0.150                      | -0.6165 |
| 0.175                       | -0.6933 | 0.175                    | -0.6657 | 0.175                      | -0.6617 |
| 0.200                       | -0.7657 | 0.200                    | -0.7087 | 0.200                      | -0.6451 |
| 0.250                       | -0.8047 | 0.250                    | -0.8014 | 0.250                      | -0.6948 |
| 0.300                       | -0.6953 | 0.300                    | -0.8412 | 0.300                      | -0.7206 |
| 0.350                       | -0.7533 | 0.350                    | -0.8575 | 0.350                      | -0.7882 |
| 0.400                       | -0.7569 | 0.400                    | -0.9174 | 0.400                      | -0.8261 |
| 0.450                       | -0.7262 | 0.450                    | -0.8721 | 0.450                      | -0.7717 |
| 0.500                       | -0.4657 | 0.500                    | -0.4397 | 0.500                      | -0.3615 |
| 0.550                       | -0.3957 | 0.550                    | -0.4116 | 0.550                      | -0.3977 |

| Lower surface |        |       |        |       |        |
|---------------|--------|-------|--------|-------|--------|
| 0.005         | 0.3861 | 0.005 | 0.3915 | 0.005 | 0.3519 |
| 0.010         | 0.1338 | 0.010 | 0.1240 | 0.010 | 0.0297 |

Fight 35 Test point 62

Sweep, deg = 30.9 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 224.9 Rnpu = 1982000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8161  | 0.000                    | 0.8053  | 0.000                      | 0.7959  |
| 0.005                       | -0.0676 | 0.005                    | -0.0394 | 0.005                      | 0.1994  |
| 0.010                       | -0.3447 | 0.010                    | -0.2626 | 0.010                      | -0.0869 |
| 0.020                       | -0.5509 | 0.020                    | -0.4930 | 0.020                      | -0.4058 |
| 0.040                       | -0.6847 | 0.040                    | -0.6152 | 0.040                      | -0.5542 |
| 0.060                       | -0.6813 | 0.060                    | -0.6631 | 0.060                      | -0.6840 |
| 0.080                       | -0.7437 | 0.080                    | -0.7162 | 0.080                      | -0.6414 |
| 0.100                       | -0.7406 | 0.100                    | -0.7278 | 0.100                      | -0.6473 |
| 0.125                       | -0.6757 | 0.125                    | -0.7164 | 0.125                      | -0.5586 |
| 0.150                       | -0.7470 | 0.150                    | -0.7105 | 0.150                      | -0.6704 |
| 0.175                       | -0.7531 | 0.175                    | -0.7352 | 0.175                      | -0.7302 |
| 0.200                       | -0.8337 | 0.200                    | -0.7646 | 0.200                      | -0.7253 |
| 0.250                       | -0.8816 | 0.250                    | -0.8531 | 0.250                      | -0.7772 |
| 0.300                       | -0.9031 | 0.300                    | -0.8922 | 0.300                      | -0.8127 |
| 0.350                       | -0.7320 | 0.350                    | -0.9329 | 0.350                      | -0.8633 |
| 0.400                       | -0.7612 | 0.400                    | -0.9910 | 0.400                      | -0.8858 |
| 0.450                       | -0.7557 | 0.450                    | -0.9726 | 0.450                      | -0.9328 |
| 0.500                       | -0.4804 | 0.500                    | -0.4667 | 0.500                      | -0.3692 |
| 0.550                       | -0.3931 | 0.550                    | -0.4070 | 0.550                      | -0.3772 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4814 | 0.005 | 0.4933 | 0.005 | 0.4570 |
| 0.010 | 0.2534 | 0.010 | 0.2463 | 0.010 | 0.1712 |

Fight 35 ~~test point~~ 63

Sweep, deg = 30.9 Mach = 0.80 hp, ft = 35400. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 220.2 Rnpu = 1946000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8395  | 0.000                    | 0.8326  | 0.000                      | 0.8227  |
| 0.005                       | 0.0862  | 0.005                    | 0.1132  | 0.005                      | 0.3320  |
| 0.010                       | -0.1791 | 0.010                    | -0.1014 | 0.010                      | 0.0714  |
| 0.020                       | -0.3869 | 0.020                    | -0.3369 | 0.020                      | -0.2318 |
| 0.040                       | -0.4945 | 0.040                    | -0.5007 | 0.040                      | -0.3953 |
| 0.060                       | -0.5713 | 0.060                    | -0.5314 | 0.060                      | -0.4811 |
| 0.080                       | -0.6324 | 0.080                    | -0.5552 | 0.080                      | -0.4953 |
| 0.100                       | -0.6061 | 0.100                    | -0.5596 | 0.100                      | -0.5042 |
| 0.125                       | -0.5817 | 0.125                    | -0.5954 | 0.125                      | -0.5499 |
| 0.150                       | -0.6584 | 0.150                    | -0.6099 | 0.150                      | -0.6010 |
| 0.175                       | -0.6737 | 0.175                    | -0.6616 | 0.175                      | -0.6451 |
| 0.200                       | -0.7334 | 0.200                    | -0.6908 | 0.200                      | -0.6113 |
| 0.250                       | -0.6628 | 0.250                    | -0.7681 | 0.250                      | -0.6673 |
| 0.300                       | -0.7494 | 0.300                    | -0.8054 | 0.300                      | -0.7056 |
| 0.350                       | -0.7443 | 0.350                    | -0.8087 | 0.350                      | -0.7528 |
| 0.400                       | -0.7278 | 0.400                    | -0.8832 | 0.400                      | -0.7776 |
| 0.450                       | -0.6624 | 0.450                    | -0.6742 | 0.450                      | -0.4204 |
| 0.500                       | -0.4541 | 0.500                    | -0.4333 | 0.500                      | -0.4064 |
| 0.550                       | -0.3968 | 0.550                    | -0.4274 | 0.550                      | -0.4230 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.3671 | 0.005 | 0.3735 | 0.005 | 0.3385 |
| 0.010 | 0.1202 | 0.010 | 0.1110 | 0.010 | 0.0091 |

Fight 35 Test point 64

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 3.8  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 172.0 R<sub>npu</sub> = 1706000.

Upper surface

| BL 200.8<br>Inboard station |                | BL 260<br>Middle station |                | BL 320<br>Outboard station |                |
|-----------------------------|----------------|--------------------------|----------------|----------------------------|----------------|
| x/c                         | C <sub>p</sub> | x/c                      | C <sub>p</sub> | x/c                        | C <sub>p</sub> |
| 0.000                       | 0.6356         | 0.000                    | 0.6130         | 0.000                      | 0.6457         |
| 0.005                       | -0.7490        | 0.005                    | -0.6909        | 0.005                      | -0.3046        |
| 0.010                       | -1.0509        | 0.010                    | -0.9544        | 0.010                      | -0.6685        |
| 0.020                       | -1.2326        | 0.020                    | -1.1227        | 0.020                      | -1.0473        |
| 0.040                       | -1.2016        | 0.040                    | -1.2636        | 0.040                      | -1.0279        |
| 0.060                       | -1.1784        | 0.060                    | -1.1312        | 0.060                      | -1.0401        |
| 0.080                       | -1.0435        | 0.080                    | -1.0150        | 0.080                      | -0.8992        |
| 0.100                       | -0.9949        | 0.100                    | -0.9031        | 0.100                      | -0.8410        |
| 0.125                       | -0.8230        | 0.125                    | -0.8462        | 0.125                      | -0.8039        |
| 0.150                       | -0.8720        | 0.150                    | -0.8730        | 0.150                      | -0.7686        |
| 0.175                       | -0.8111        | 0.175                    | -0.8594        | 0.175                      | -0.7683        |
| 0.200                       | -0.8583        | 0.200                    | -0.8440        | 0.200                      | -0.7301        |
| 0.250                       | -0.8023        | 0.250                    | -0.8425        | 0.250                      | -0.7136        |
| 0.300                       | -0.7395        | 0.300                    | -0.7731        | 0.300                      | -0.6667        |
| 0.350                       | -0.6737        | 0.350                    | -0.6798        | 0.350                      | -0.6342        |
| 0.400                       | -0.6055        | 0.400                    | -0.6531        | 0.400                      | -0.5948        |
| 0.450                       | -0.5191        | 0.450                    | -0.5645        | 0.450                      | -0.5536        |
| 0.500                       | -0.4969        | 0.500                    | -0.5371        | 0.500                      | -0.4941        |
| 0.550                       | -0.4187        | 0.550                    | -0.4964        | 0.550                      | -0.4729        |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.7098 | 0.005 | 0.7268 | 0.005 | 0.6983 |
| 0.010 | 0.5494 | 0.010 | 0.5538 | 0.010 | 0.4869 |

Fight 35 Test point 65

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 35200. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 168.6 R<sub>rho</sub> = 1682000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8318  | 0.000                    | 0.8317  | 0.000                      | 0.8273  |
| 0.005                       | 0.0261  | 0.005                    | 0.0776  | 0.005                      | 0.3415  |
| 0.010                       | -0.2330 | 0.010                    | -0.1323 | 0.010                      | 0.0751  |
| 0.020                       | -0.4120 | 0.020                    | -0.3533 | 0.020                      | -0.2061 |
| 0.040                       | -0.5073 | 0.040                    | -0.4615 | 0.040                      | -0.3462 |
| 0.060                       | -0.5422 | 0.060                    | -0.4795 | 0.060                      | -0.4023 |
| 0.080                       | -0.5569 | 0.080                    | -0.4992 | 0.080                      | -0.4141 |
| 0.100                       | -0.5461 | 0.100                    | -0.4999 | 0.100                      | -0.4212 |
| 0.125                       | -0.5068 | 0.125                    | -0.4945 | 0.125                      | -0.4288 |
| 0.150                       | -0.5625 | 0.150                    | -0.5213 | 0.150                      | -0.4493 |
| 0.175                       | -0.5500 | 0.175                    | -0.5343 | 0.175                      | -0.4675 |
| 0.200                       | -0.5985 | 0.200                    | -0.5459 | 0.200                      | -0.4551 |
| 0.250                       | -0.5782 | 0.250                    | -0.5860 | 0.250                      | -0.4856 |
| 0.300                       | -0.5502 | 0.300                    | -0.5600 | 0.300                      | -0.4763 |
| 0.350                       | -0.5304 | 0.350                    | -0.5129 | 0.350                      | -0.4764 |
| 0.400                       | -0.4815 | 0.400                    | -0.5210 | 0.400                      | -0.4630 |
| 0.450                       | -0.4304 | 0.450                    | -0.4610 | 0.450                      | -0.4454 |
| 0.500                       | -0.4218 | 0.500                    | -0.4548 | 0.500                      | -0.4146 |
| 0.550                       | -0.3640 | 0.550                    | -0.4328 | 0.550                      | -0.4214 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3462 | 0.005 | 0.3622 | 0.005 | 0.2847  |
| 0.010 | 0.1054 | 0.010 | 0.0941 | 0.010 | -0.0520 |

m-1110

Fight 35 Test point 66

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 35000. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 172.1 Rnpu = 1705000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8268  | 0.000                    | 0.8203  | 0.000                      | 0.8209  |
| 0.005                       | -0.0731 | 0.005                    | -0.0207 | 0.005                      | 0.2609  |
| 0.010                       | -0.3326 | 0.010                    | -0.2373 | 0.010                      | -0.0177 |
| 0.020                       | -0.5008 | 0.020                    | -0.4511 | 0.020                      | -0.3068 |
| 0.040                       | -0.5879 | 0.040                    | -0.5566 | 0.040                      | -0.4327 |
| 0.060                       | -0.6087 | 0.060                    | -0.5599 | 0.060                      | -0.4785 |
| 0.080                       | -0.6220 | 0.080                    | -0.5554 | 0.080                      | -0.4782 |
| 0.100                       | -0.6019 | 0.100                    | -0.5551 | 0.100                      | -0.4850 |
| 0.125                       | -0.5556 | 0.125                    | -0.5457 | 0.125                      | -0.4834 |
| 0.150                       | -0.6029 | 0.150                    | -0.5810 | 0.150                      | -0.4970 |
| 0.175                       | -0.5915 | 0.175                    | -0.5827 | 0.175                      | -0.5095 |
| 0.200                       | -0.6384 | 0.200                    | -0.5921 | 0.200                      | -0.5011 |
| 0.250                       | -0.6186 | 0.250                    | -0.6219 | 0.250                      | -0.5235 |
| 0.300                       | -0.5906 | 0.300                    | -0.6010 | 0.300                      | -0.5063 |
| 0.350                       | -0.5568 | 0.350                    | -0.5458 | 0.350                      | -0.5100 |
| 0.400                       | -0.5124 | 0.400                    | -0.5427 | 0.400                      | -0.4814 |
| 0.450                       | -0.4469 | 0.450                    | -0.4826 | 0.450                      | -0.4652 |
| 0.500                       | -0.4379 | 0.500                    | -0.4757 | 0.500                      | -0.4309 |
| 0.550                       | -0.3753 | 0.550                    | -0.4501 | 0.550                      | -0.4332 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4163 | 0.005 | 0.4323 | 0.005 | 0.3653 |
| 0.010 | 0.1862 | 0.010 | 0.1720 | 0.010 | 0.0493 |

Fight 35 Test point 67

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 35000. Angle of attack, deg = 3.4  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 169.6 R<sub>pu</sub> = 1690000.

Upper surface

| BL 200.8<br>Inboard station |                | BL 260<br>Middle station |                | BL 320<br>Outboard station |                |
|-----------------------------|----------------|--------------------------|----------------|----------------------------|----------------|
| x/c                         | C <sub>p</sub> | x/c                      | C <sub>p</sub> | x/c                        | C <sub>p</sub> |
| 0.000                       | 0.7552         | 0.000                    | 0.7658         | 0.000                      | 0.7946         |
| 0.005                       | -0.6043        | 0.005                    | -0.5219        | 0.005                      | -0.1311        |
| 0.010                       | -0.9243        | 0.010                    | -0.8012        | 0.010                      | -0.5033        |
| 0.020                       | -1.0735        | 0.020                    | -1.0031        | 0.020                      | -0.8721        |
| 0.040                       | -1.1391        | 0.040                    | -1.1771        | 0.040                      | -0.9424        |
| 0.060                       | -1.1954        | 0.060                    | -1.0710        | 0.060                      | -0.9902        |
| 0.080                       | -1.0581        | 0.080                    | -1.0125        | 0.080                      | -0.8778        |
| 0.100                       | -0.9583        | 0.100                    | -0.9545        | 0.100                      | -0.8468        |
| 0.125                       | -0.8443        | 0.125                    | -0.8560        | 0.125                      | -0.7955        |
| 0.150                       | -0.9487        | 0.150                    | -0.8989        | 0.150                      | -0.7848        |
| 0.175                       | -0.8500        | 0.175                    | -0.9000        | 0.175                      | -0.7925        |
| 0.200                       | -0.9314        | 0.200                    | -0.8965        | 0.200                      | -0.7507        |
| 0.250                       | -0.8579        | 0.250                    | -0.9080        | 0.250                      | -0.7471        |
| 0.300                       | -0.7979        | 0.300                    | -0.8290        | 0.300                      | -0.7024        |
| 0.350                       | -0.7175        | 0.350                    | -0.7328        | 0.350                      | -0.6732        |
| 0.400                       | -0.6391        | 0.400                    | -0.7010        | 0.400                      | -0.6310        |
| 0.450                       | -0.5535        | 0.450                    | -0.6090        | 0.450                      | -0.5846        |
| 0.500                       | -0.5229        | 0.500                    | -0.5802        | 0.500                      | -0.5209        |
| 0.550                       | -0.4286        | 0.550                    | -0.5259        | 0.550                      | -0.4928        |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.7240 | 0.005 | 0.7409 | 0.005 | 0.7086 |
| 0.010 | 0.5362 | 0.010 | 0.5318 | 0.010 | 0.4456 |



Fight 35 Test point 68

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 35400. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 167.4 R<sub>npu</sub> = 1670000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.9114  | 0.000                    | 0.9346  | 0.000                      | 0.9118  |
| 0.005                       | 0.1371  | 0.005                    | 0.2082  | 0.005                      | 0.4686  |
| 0.010                       | -0.1334 | 0.010                    | -0.0276 | 0.010                      | 0.1899  |
| 0.020                       | -0.3429 | 0.020                    | -0.2700 | 0.020                      | -0.1185 |
| 0.040                       | -0.4772 | 0.040                    | -0.4182 | 0.040                      | -0.2793 |
| 0.060                       | -0.5294 | 0.060                    | -0.4509 | 0.060                      | -0.3611 |
| 0.080                       | -0.5579 | 0.080                    | -0.4795 | 0.080                      | -0.3875 |
| 0.100                       | -0.5511 | 0.100                    | -0.4971 | 0.100                      | -0.4113 |
| 0.125                       | -0.5201 | 0.125                    | -0.4992 | 0.125                      | -0.4189 |
| 0.150                       | -0.5807 | 0.150                    | -0.5344 | 0.150                      | -0.4526 |
| 0.175                       | -0.5753 | 0.175                    | -0.5554 | 0.175                      | -0.4633 |
| 0.200                       | -0.6301 | 0.200                    | -0.5730 | 0.200                      | -0.4654 |
| 0.250                       | -0.6174 | 0.250                    | -0.6268 | 0.250                      | -0.5073 |
| 0.300                       | -0.5927 | 0.300                    | -0.6052 | 0.300                      | -0.5038 |
| 0.350                       | -0.5650 | 0.350                    | -0.5604 | 0.350                      | -0.5079 |
| 0.400                       | -0.5196 | 0.400                    | -0.5658 | 0.400                      | -0.4969 |
| 0.450                       | -0.4576 | 0.450                    | -0.4907 | 0.450                      | -0.4765 |
| 0.500                       | -0.4470 | 0.500                    | -0.4906 | 0.500                      | -0.4416 |
| 0.550                       | -0.3861 | 0.550                    | -0.4707 | 0.550                      | -0.4387 |

Lower surface

|       |        |       |        |       |         |
|-------|--------|-------|--------|-------|---------|
| 0.005 | 0.3150 | 0.005 | 0.3269 | 0.005 | 0.2362  |
| 0.010 | 0.0452 | 0.010 | 0.0227 | 0.010 | -0.1443 |

Fight 35 Test point 69

Sweep, deg = 24.9 Mach = 0.70 hp, ft = 35100. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 169.5 Rrho = 1687000.

Upper surface

| BL 200.8<br>Inboard station |         | BL 260<br>Middle station |         | BL 320<br>Outboard station |         |
|-----------------------------|---------|--------------------------|---------|----------------------------|---------|
| x/c                         | Cp      | x/c                      | Cp      | x/c                        | Cp      |
| 0.000                       | 0.8870  | 0.000                    | 0.9086  | 0.000                      | 0.9022  |
| 0.005                       | -0.0849 | 0.005                    | -0.0149 | 0.005                      | 0.2921  |
| 0.010                       | -0.3723 | 0.010                    | -0.2590 | 0.010                      | -0.0088 |
| 0.020                       | -0.5598 | 0.020                    | -0.4983 | 0.020                      | -0.3268 |
| 0.040                       | -0.6669 | 0.040                    | -0.6176 | 0.040                      | -0.4689 |
| 0.060                       | -0.6944 | 0.060                    | -0.6236 | 0.060                      | -0.5185 |
| 0.080                       | -0.7059 | 0.080                    | -0.6333 | 0.080                      | -0.5280 |
| 0.100                       | -0.6904 | 0.100                    | -0.6330 | 0.100                      | -0.5455 |
| 0.125                       | -0.6273 | 0.125                    | -0.6297 | 0.125                      | -0.5401 |
| 0.150                       | -0.6986 | 0.150                    | -0.6455 | 0.150                      | -0.5583 |
| 0.175                       | -0.6729 | 0.175                    | -0.6631 | 0.175                      | -0.5646 |
| 0.200                       | -0.7279 | 0.200                    | -0.6724 | 0.200                      | -0.5574 |
| 0.250                       | -0.7052 | 0.250                    | -0.7174 | 0.250                      | -0.5803 |
| 0.300                       | -0.6613 | 0.300                    | -0.6851 | 0.300                      | -0.5667 |
| 0.350                       | -0.6204 | 0.350                    | -0.6204 | 0.350                      | -0.5629 |
| 0.400                       | -0.5631 | 0.400                    | -0.6104 | 0.400                      | -0.5381 |
| 0.450                       | -0.4961 | 0.450                    | -0.5354 | 0.450                      | -0.5155 |
| 0.500                       | -0.4783 | 0.500                    | -0.5237 | 0.500                      | -0.4691 |
| 0.550                       | -0.4044 | 0.550                    | -0.4913 | 0.550                      | -0.4620 |

Lower surface

|       |        |       |        |       |        |
|-------|--------|-------|--------|-------|--------|
| 0.005 | 0.4823 | 0.005 | 0.4969 | 0.005 | 0.4235 |
| 0.010 | 0.2344 | 0.010 | 0.2167 | 0.010 | 0.0805 |

Table 6 Boundary-Layer Velocity Profile Data

Flight 11 Test point 1

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 19900. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 333.5 Rnpu = 2922000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.3892                     | 0.1287                      | 0.0517                  | none             |
| Outboard station rake | 0.3079                     | 0.1089                      | 0.0362                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y              | U/U <sub>max</sub> | Y                | U/U <sub>max</sub> |
| 0.0300         | 0.2548             | 0.0400           | 0.1878             |
| 0.0500         | 0.3606             | 0.0700           | 0.4694             |
| 0.1100         | 0.6065             | 0.1200           | 0.6990             |
| 0.1700         | 0.7389             | 0.1800           | 0.8261             |
| 0.2200         | 0.8128             | 0.2100           | 0.9016             |
| 0.2700         | 0.8794             | 0.2700           | 0.9651             |
| 0.3200         | 0.9324             | 0.3100           | 0.9931             |
| 0.3600         | 0.9725             | 0.3700           | 0.9982             |
| 0.4100         | 0.9908             | 0.4200           | 1.0003             |
| 0.5100         | 0.9988             | 0.5300           | 0.9981             |
| 0.7200         | 1.0014             | 0.7300           | 1.0008             |
| 0.9100         | 1.0002             | 0.9400           | 1.0023             |
| 1.1100         | 1.0008             | 1.1500           | 0.9991             |
| 1.3000         | 1.0013             | 1.3500           | 0.9969             |
| 1.5300         | 0.9990             | 1.5500           | 1.0015             |
| 1.7400         | 1.0022             | 1.7500           | 1.0021             |
| 1.9400         | 1.0015             | 1.9500           | 1.0028             |
| 2.1400         | 1.0011             | 2.1600           | 1.0007             |
| 2.3500         | 1.0012             | 2.3700           | 1.0016             |
| 2.5500         | 1.0018             | 2.5800           | 1.0025             |

Flight 11 Test point 2

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 19900. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 338.7 Rrho = 2949000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4192                     | 0.1333                      | 0.0539                  | none             |
| Outboard station rake | 0.3227                     | 0.1112                      | 0.0397                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y              | U/U <sub>max</sub> | Y                | U/U <sub>max</sub> |
| 0.0300         | 0.2997             | 0.0400           | 0.2825             |
| 0.0500         | 0.3280             | 0.0700           | 0.4263             |
| 0.1100         | 0.5903             | 0.1200           | 0.6765             |
| 0.1700         | 0.7266             | 0.1800           | 0.8083             |
| 0.2200         | 0.8009             | 0.2100           | 0.8865             |
| 0.2700         | 0.8684             | 0.2700           | 0.9557             |
| 0.3200         | 0.9234             | 0.3100           | 0.9899             |
| 0.3600         | 0.9661             | 0.3700           | 0.9981             |
| 0.4100         | 0.9878             | 0.4200           | 1.0003             |
| 0.5100         | 0.9990             | 0.5300           | 0.9981             |
| 0.7200         | 1.0016             | 0.7300           | 1.0011             |
| 0.9100         | 1.0004             | 0.9400           | 1.0024             |
| 1.1100         | 1.0015             | 1.1500           | 0.9995             |
| 1.3000         | 1.0016             | 1.3500           | 0.9974             |
| 1.5300         | 0.9993             | 1.5500           | 1.0020             |
| 1.7400         | 1.0025             | 1.7500           | 1.0022             |
| 1.9400         | 1.0018             | 1.9500           | 1.0033             |
| 2.1400         | 1.0013             | 2.1600           | 1.0011             |
| 2.3500         | 1.0013             | 2.3700           | 1.0021             |
| 2.5500         | 1.0020             | 2.5800           | 1.0026             |

Flight 11 Test point 3

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 19100. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 395.2 Rnpu = 3238000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4174                     | 0.1359                      | 0.0537                  | none             |
| Outboard station rake | 0.3927                     | 0.1337                      | 0.0487                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y              | U/U <sub>max</sub> | Y                | U/U <sub>max</sub> |
| 0.0300         | 0.3246             | 0.0400           | 0.3602             |
| 0.0500         | 0.2988             | 0.0700           | 0.3000             |
| 0.1100         | 0.5761             | 0.1200           | 0.5872             |
| 0.1700         | 0.7171             | 0.1800           | 0.7277             |
| 0.2200         | 0.7968             | 0.2100           | 0.8133             |
| 0.2700         | 0.8677             | 0.2700           | 0.8962             |
| 0.3200         | 0.9257             | 0.3100           | 0.9540             |
| 0.3600         | 0.9677             | 0.3700           | 0.9882             |
| 0.4100         | 0.9893             | 0.4200           | 0.9994             |
| 0.5100         | 0.9994             | 0.5300           | 0.9987             |
| 0.7200         | 1.0015             | 0.7300           | 1.0014             |
| 0.9100         | 1.0004             | 0.9400           | 1.0030             |
| 1.1100         | 1.0009             | 1.1500           | 0.9999             |
| 1.3000         | 1.0016             | 1.3500           | 0.9979             |
| 1.5300         | 0.9987             | 1.5500           | 1.0017             |
| 1.7400         | 1.0021             | 1.7500           | 1.0015             |
| 1.9400         | 1.0014             | 1.9500           | 1.0027             |
| 2.1400         | 1.0013             | 2.1600           | 1.0012             |
| 2.3500         | 1.0012             | 2.3700           | 1.0017             |
| 2.5500         | 1.0021             | 2.5800           | 1.0025             |

Flight 11 Test point 4

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 336.9 Rnpu = 2942000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4655                     | 0.1218                      | 0.0594                  | none             |
| Outboard station rake | 0.3867                     | 0.1052                      | 0.0472                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y              | U/U <sub>max</sub> | Y                | U/U <sub>max</sub> |
| 0.0300         | 0.4829             | 0.0400           | 0.5094             |
| 0.0500         | 0.5656             | 0.0700           | 0.6027             |
| 0.1100         | 0.6640             | 0.1200           | 0.7037             |
| 0.1700         | 0.7414             | 0.1800           | 0.7852             |
| 0.2200         | 0.7935             | 0.2100           | 0.8436             |
| 0.2700         | 0.8477             | 0.2700           | 0.9058             |
| 0.3200         | 0.8943             | 0.3100           | 0.9512             |
| 0.3600         | 0.9360             | 0.3700           | 0.9832             |
| 0.4100         | 0.9678             | 0.4200           | 0.9985             |
| 0.5100         | 0.9987             | 0.5300           | 1.0010             |
| 0.7200         | 1.0043             | 0.7300           | 1.0023             |
| 0.9100         | 1.0024             | 0.9400           | 1.0031             |
| 1.1100         | 1.0037             | 1.1500           | 0.9999             |
| 1.3000         | 1.0039             | 1.3500           | 0.9975             |
| 1.5300         | 0.9998             | 1.5500           | 1.0023             |
| 1.7400         | 1.0044             | 1.7500           | 1.0024             |
| 1.9400         | 1.0039             | 1.9500           | 1.0037             |
| 2.1400         | 1.0034             | 2.1600           | 1.0010             |
| 2.3500         | 1.0034             | 2.3700           | 1.0021             |
| 2.5500         | 1.0042             | 2.5800           | 1.0030             |

Flight 11 Test point 5

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 19900. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 339.0 Rnpu = 2951000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4350                     | 0.1185                      | 0.0569                  | none             |
| Outboard station rake | 0.3375                     | 0.0971                      | 0.0424                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y              | U/U <sub>max</sub> | Y                | U/U <sub>max</sub> |
| 0.0300         | 0.4662             | 0.0400           | 0.5109             |
| 0.0500         | 0.5570             | 0.0700           | 0.6130             |
| 0.1100         | 0.6629             | 0.1200           | 0.7217             |
| 0.1700         | 0.7439             | 0.1800           | 0.8086             |
| 0.2200         | 0.7998             | 0.2100           | 0.8712             |
| 0.2700         | 0.8576             | 0.2700           | 0.9335             |
| 0.3200         | 0.9062             | 0.3100           | 0.9741             |
| 0.3600         | 0.9485             | 0.3700           | 0.9948             |
| 0.4100         | 0.9780             | 0.4200           | 1.0024             |
| 0.5100         | 1.0001             | 0.5300           | 1.0020             |
| 0.7200         | 1.0031             | 0.7300           | 1.0032             |
| 0.9100         | 1.0016             | 0.9400           | 1.0040             |
| 1.1100         | 1.0027             | 1.1500           | 1.0011             |
| 1.3000         | 1.0025             | 1.3500           | 0.9984             |
| 1.5300         | 0.9985             | 1.5500           | 1.0030             |
| 1.7400         | 1.0030             | 1.7500           | 1.0033             |
| 1.9400         | 1.0028             | 1.9500           | 1.0044             |
| 2.1400         | 1.0026             | 2.1600           | 1.0024             |
| 2.3500         | 1.0024             | 2.3700           | 1.0031             |
| 2.5500         | 1.0028             | 2.5800           | 1.0040             |

Flight 11 Test point 6

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 336.2 R<sub>npu</sub> = 2935000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4735                     | 0.1317                      | 0.0630                  | none             |
| Outboard station rake | 0.3522                     | 0.1098                      | 0.0463                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y              | U/U <sub>max</sub> | Y                | U/U <sub>max</sub> |
| 0.0300         | 0.4429             | 0.0400           | 0.4286             |
| 0.0500         | 0.5371             | 0.0700           | 0.5615             |
| 0.1100         | 0.6432             | 0.1200           | 0.6756             |
| 0.1700         | 0.7219             | 0.1800           | 0.7801             |
| 0.2200         | 0.7737             | 0.2100           | 0.8453             |
| 0.2700         | 0.8285             | 0.2700           | 0.9134             |
| 0.3200         | 0.8761             | 0.3100           | 0.9611             |
| 0.3600         | 0.9203             | 0.3700           | 0.9913             |
| 0.4100         | 0.9573             | 0.4200           | 1.0010             |
| 0.5100         | 0.9986             | 0.5300           | 1.0005             |
| 0.7200         | 1.0052             | 0.7300           | 1.0017             |
| 0.9100         | 1.0037             | 0.9400           | 0.9962             |
| 1.1100         | 1.0046             | 1.1500           | 0.9997             |
| 1.3000         | 1.0046             | 1.3500           | 0.9972             |
| 1.5300         | 1.0010             | 1.5500           | 1.0019             |
| 1.7400         | 1.0054             | 1.7500           | 1.0018             |
| 1.9400         | 1.0052             | 1.9500           | 1.0030             |
| 2.1400         | 1.0046             | 2.1600           | 1.0013             |
| 2.3500         | 1.0044             | 2.3700           | 1.0020             |
| 2.5500         | 1.0053             | 2.5800           | 1.0025             |



Flight 11 Test point 7

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 20400. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 330.8 R<sub>pu</sub> = 2897000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5543                     | 0.1438                      | 0.0719                  | none             |
| Outboard station rake | 0.4265                     | 0.1148                      | 0.0523                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y              | U/U <sub>max</sub> | Y                | U/U <sub>max</sub> |
| 0.0300         | 0.4824             | 0.0400           | 0.4995             |
| 0.0500         | 0.5537             | 0.0700           | 0.5907             |
| 0.1100         | 0.6375             | 0.1200           | 0.6861             |
| 0.1700         | 0.7074             | 0.1800           | 0.7630             |
| 0.2200         | 0.7526             | 0.2100           | 0.8178             |
| 0.2700         | 0.8017             | 0.2700           | 0.8787             |
| 0.3200         | 0.8432             | 0.3100           | 0.9269             |
| 0.3600         | 0.8829             | 0.3700           | 0.9668             |
| 0.4100         | 0.9181             | 0.4200           | 0.9913             |
| 0.5100         | 0.9767             | 0.5300           | 1.0004             |
| 0.7200         | 1.0039             | 0.7300           | 1.0014             |
| 0.9100         | 1.0019             | 0.9400           | 1.0025             |
| 1.1100         | 1.0023             | 1.1500           | 0.9992             |
| 1.3000         | 1.0025             | 1.3500           | 0.9965             |
| 1.5300         | 0.9989             | 1.5500           | 1.0007             |
| 1.7400         | 1.0032             | 1.7500           | 1.0016             |
| 1.9400         | 1.0030             | 1.9500           | 1.0024             |
| 2.1400         | 1.0024             | 2.1600           | 1.0004             |
| 2.3500         | 1.0022             | 2.3700           | 1.0014             |
| 2.5500         | 1.0029             | 2.5800           | 1.0022             |

Flight 11 Test point 8

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 19900. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 336.3 Rnpu = 2937000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7251                     | 0.1620                      | 0.0861                  | none             |
| Outboard station rake | 0.5004                     | 0.1288                      | 0.0627                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y              | U/U <sub>max</sub> | Y                | U/U <sub>max</sub> |
| 0.0300         | 0.5541             | 0.0400           | 0.5685             |
| 0.0500         | 0.5896             | 0.0700           | 0.6144             |
| 0.1100         | 0.6457             | 0.1200           | 0.6799             |
| 0.1700         | 0.6968             | 0.1800           | 0.7359             |
| 0.2200         | 0.7323             | 0.2100           | 0.7791             |
| 0.2700         | 0.7726             | 0.2700           | 0.8306             |
| 0.3200         | 0.8062             | 0.3100           | 0.8740             |
| 0.3600         | 0.8414             | 0.3700           | 0.9140             |
| 0.4100         | 0.8726             | 0.4200           | 0.9492             |
| 0.5100         | 0.9315             | 0.5300           | 0.9924             |
| 0.7200         | 0.9986             | 0.7300           | 1.0014             |
| 0.9100         | 0.9996             | 0.9400           | 1.0021             |
| 1.1100         | 1.0008             | 1.1500           | 0.9989             |
| 1.3000         | 1.0008             | 1.3500           | 0.9965             |
| 1.5300         | 0.9961             | 1.5500           | 1.0013             |
| 1.7400         | 1.0015             | 1.7500           | 1.0014             |
| 1.9400         | 1.0008             | 1.9500           | 1.0027             |
| 2.1400         | 1.0004             | 2.1600           | 1.0002             |
| 2.3500         | 1.0005             | 2.3700           | 1.0010             |
| 2.5500         | 1.0010             | 2.5800           | 1.0020             |

Flight 11 Test point 9

Sweep, deg = 29.7 Mach = 0.70 hp, ft = 19800. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 335.2 Rnpu = 2935000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7238                     | 0.1560                      | 0.0837                  | none             |
| Outboard station rake | 0.5098                     | 0.1279                      | 0.0631                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y              | U/Umax | Y                | U/Umax |
| 0.0300         | 0.5627 | 0.0400           | 0.5798 |
| 0.0500         | 0.5982 | 0.0700           | 0.6222 |
| 0.1100         | 0.6547 | 0.1200           | 0.6866 |
| 0.1700         | 0.7053 | 0.1800           | 0.7400 |
| 0.2200         | 0.7406 | 0.2100           | 0.7822 |
| 0.2700         | 0.7815 | 0.2700           | 0.8316 |
| 0.3200         | 0.8154 | 0.3100           | 0.8731 |
| 0.3600         | 0.8512 | 0.3700           | 0.9107 |
| 0.4100         | 0.8813 | 0.4200           | 0.9455 |
| 0.5100         | 0.9371 | 0.5300           | 0.9913 |
| 0.7200         | 0.9990 | 0.7300           | 1.0015 |
| 0.9100         | 0.9997 | 0.9400           | 1.0031 |
| 1.1100         | 1.0006 | 1.1500           | 0.9988 |
| 1.3000         | 1.0006 | 1.3500           | 0.9963 |
| 1.5300         | 0.9965 | 1.5500           | 1.0013 |
| 1.7400         | 1.0013 | 1.7500           | 1.0014 |
| 1.9400         | 1.0011 | 1.9500           | 1.0031 |
| 2.1400         | 1.0007 | 2.1600           | 1.0004 |
| 2.3500         | 1.0001 | 2.3700           | 1.0008 |
| 2.5500         | 1.0005 | 2.5800           | 1.0020 |

Flight 11 Test point 10

Sweep, deg = 35.3 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 333.5 R<sub>npu</sub> = 2921000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7461                     | 0.1690                      | 0.0913                  | none             |
| Outboard station rake | 0.5944                     | 0.1392                      | 0.0708                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y              | U/U <sub>max</sub> | Y                | U/U <sub>max</sub> |
| 0.0300         | 0.5667             | 0.0400           | 0.5928             |
| 0.0500         | 0.5947             | 0.0700           | 0.6228             |
| 0.1100         | 0.6480             | 0.1200           | 0.6809             |
| 0.1700         | 0.6956             | 0.1800           | 0.7289             |
| 0.2200         | 0.7281             | 0.2100           | 0.7653             |
| 0.2700         | 0.7653             | 0.2700           | 0.8113             |
| 0.3200         | 0.7961             | 0.3100           | 0.8496             |
| 0.3600         | 0.8285             | 0.3700           | 0.8855             |
| 0.4100         | 0.8567             | 0.4200           | 0.9189             |
| 0.5100         | 0.9113             | 0.5300           | 0.9725             |
| 0.7200         | 0.9913             | 0.7300           | 1.0034             |
| 0.9100         | 1.0004             | 0.9400           | 1.0044             |
| 1.1100         | 1.0018             | 1.1500           | 1.0012             |
| 1.3000         | 1.0018             | 1.3500           | 0.9982             |
| 1.5300         | 0.9949             | 1.5500           | 1.0032             |
| 1.7400         | 1.0024             | 1.7500           | 1.0033             |
| 1.9400         | 1.0018             | 1.9500           | 1.0048             |
| 2.1400         | 1.0019             | 2.1600           | 1.0019             |
| 2.3500         | 1.0013             | 2.3700           | 1.0031             |
| 2.5500         | 1.0024             | 2.5800           | 1.0039             |

Flight 11 Test point 11

Sweep, deg = 35.3 Mach = 0.70 hp, ft = 19800. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 337.8 Rnpu = 2946000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7299                     | 0.1573                      | 0.0856                  | none             |
| Outboard station rake | 0.5603                     | 0.1275                      | 0.0649                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y              | U/U <sub>max</sub> | Y                | U/U <sub>max</sub> |
| 0.0300         | 0.5752             | 0.0400           | 0.6037             |
| 0.0500         | 0.6062             | 0.0700           | 0.6348             |
| 0.1100         | 0.6591             | 0.1200           | 0.6954             |
| 0.1700         | 0.7084             | 0.1800           | 0.7459             |
| 0.2200         | 0.7425             | 0.2100           | 0.7838             |
| 0.2700         | 0.7812             | 0.2700           | 0.8316             |
| 0.3200         | 0.8129             | 0.3100           | 0.8704             |
| 0.3600         | 0.8457             | 0.3700           | 0.9053             |
| 0.4100         | 0.8745             | 0.4200           | 0.9379             |
| 0.5100         | 0.9280             | 0.5300           | 0.9856             |
| 0.7200         | 0.9972             | 0.7300           | 1.0022             |
| 0.9100         | 0.9999             | 0.9400           | 1.0036             |
| 1.1100         | 1.0015             | 1.1500           | 0.9997             |
| 1.3000         | 1.0009             | 1.3500           | 0.9968             |
| 1.5300         | 0.9936             | 1.5500           | 1.0017             |
| 1.7400         | 1.0021             | 1.7500           | 1.0019             |
| 1.9400         | 1.0015             | 1.9500           | 1.0035             |
| 2.1400         | 1.0010             | 2.1600           | 1.0006             |
| 2.3500         | 1.0007             | 2.3700           | 1.0017             |
| 2.5500         | 1.0016             | 2.5800           | 1.0027             |

Flight 11 Test point 12

Sweep, deg = 26.5 Mach = 0.61 hp, ft = 18500. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -3.1 QBAR, lb/ft<sup>2</sup> = 281.2 Rrho = 2360000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 1.1297                     | 0.2476                      | 0.1168                  | none             |
| Outboard station rake | 0.7526                     | 0.2149                      | 0.0915                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y              | U/Umax | Y                | U/Umax |
| 0.0300         | 0.3200 | 0.0400           | 0.2527 |
| 0.0500         | 0.3748 | 0.0700           | 0.3440 |
| 0.1100         | 0.4561 | 0.1200           | 0.4621 |
| 0.1700         | 0.5325 | 0.1800           | 0.5449 |
| 0.2200         | 0.5782 | 0.2100           | 0.6022 |
| 0.2700         | 0.6325 | 0.2700           | 0.6802 |
| 0.3200         | 0.6788 | 0.3100           | 0.7484 |
| 0.3600         | 0.7305 | 0.3700           | 0.8095 |
| 0.4100         | 0.7802 | 0.4200           | 0.8665 |
| 0.5100         | 0.8677 | 0.5300           | 0.9504 |
| 0.7200         | 0.9761 | 0.7300           | 0.9956 |
| 0.9100         | 0.9885 | 0.9400           | 1.0031 |
| 1.1100         | 0.9962 | 1.1500           | 1.0004 |
| 1.3000         | 1.0003 | 1.3500           | 0.9962 |
| 1.5300         | 1.0014 | 1.5500           | 1.0031 |
| 1.7400         | 1.0054 | 1.7500           | 1.0026 |
| 1.9400         | 1.0042 | 1.9500           | 1.0028 |
| 2.1400         | 1.0028 | 2.1600           | 0.9993 |
| 2.3500         | 1.0001 | 2.3700           | 0.9990 |
| 2.5500         | 1.0011 | 2.5800           | 0.9979 |

Flight 11 Test point 13

Sweep, deg = 35.3 Mach = 0.75 hp, ft = 19700. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 386.6 Rrho = 3175000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7302                     | 0.1630                      | 0.0861                  | none             |
| Outboard station rake | 0.5585                     | 0.1332                      | 0.0660                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y              | U/Umax | Y                | U/Umax |
| 0.0300         | 0.5659 | 0.0400           | 0.5903 |
| 0.0500         | 0.5932 | 0.0700           | 0.6221 |
| 0.1100         | 0.6478 | 0.1200           | 0.6809 |
| 0.1700         | 0.7005 | 0.1800           | 0.7345 |
| 0.2200         | 0.7346 | 0.2100           | 0.7752 |
| 0.2700         | 0.7737 | 0.2700           | 0.8239 |
| 0.3200         | 0.8071 | 0.3100           | 0.8637 |
| 0.3600         | 0.8414 | 0.3700           | 0.9016 |
| 0.4100         | 0.8730 | 0.4200           | 0.9362 |
| 0.5100         | 0.9283 | 0.5300           | 0.9855 |
| 0.7200         | 0.9971 | 0.7300           | 1.0027 |
| 0.9100         | 0.9997 | 0.9400           | 1.0031 |
| 1.1100         | 1.0019 | 1.1500           | 1.0002 |
| 1.3000         | 1.0011 | 1.3500           | 0.9975 |
| 1.5300         | 0.9939 | 1.5500           | 1.0018 |
| 1.7400         | 1.0015 | 1.7500           | 1.0020 |
| 1.9400         | 1.0006 | 1.9500           | 1.0026 |
| 2.1400         | 1.0014 | 2.1600           | 1.0009 |
| 2.3500         | 1.0012 | 2.3700           | 1.0020 |
| 2.5500         | 1.0017 | 2.5800           | 1.0017 |

Flight 11 Test point 14

Sweep, deg = 29.7 Mach = 0.75 hp, ft = 19900. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 386.9 R<sub>npu</sub> = 3173000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7297                     | 0.1799                      | 0.0915                  | none             |
| Outboard station rake | 0.5640                     | 0.1505                      | 0.0714                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y              | U/U <sub>max</sub> | Y                | U/U <sub>max</sub> |
| 0.0300         | 0.5220             | 0.0400           | 0.5195             |
| 0.0500         | 0.5582             | 0.0700           | 0.5707             |
| 0.1100         | 0.6157             | 0.1200           | 0.6384             |
| 0.1700         | 0.6683             | 0.1800           | 0.6959             |
| 0.2200         | 0.7051             | 0.2100           | 0.7407             |
| 0.2700         | 0.7466             | 0.2700           | 0.7951             |
| 0.3200         | 0.7827             | 0.3100           | 0.8413             |
| 0.3600         | 0.8204             | 0.3700           | 0.8853             |
| 0.4100         | 0.8536             | 0.4200           | 0.9246             |
| 0.5100         | 0.9177             | 0.5300           | 0.9836             |
| 0.7200         | 0.9968             | 0.7300           | 1.0021             |
| 0.9100         | 1.0000             | 0.9400           | 1.0032             |
| 1.1100         | 1.0009             | 1.1500           | 1.0003             |
| 1.3000         | 1.0009             | 1.3500           | 0.9978             |
| 1.5300         | 0.9963             | 1.5500           | 1.0021             |
| 1.7400         | 1.0016             | 1.7500           | 1.0020             |
| 1.9400         | 1.0010             | 1.9500           | 1.0030             |
| 2.1400         | 1.0005             | 2.1600           | 1.0014             |
| 2.3500         | 1.0009             | 2.3700           | 1.0022             |
| 2.5500         | 1.0011             | 2.5800           | 1.0023             |



Flight 11 Test point 15

Sweep, deg = 29.7 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 383.1 Rrho = 3151000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7260                     | 0.1689                      | 0.0871                  | none             |
| Outboard station rake | 0.5602                     | 0.1416                      | 0.0683                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y              | U/U <sub>max</sub> | Y                | U/U <sub>max</sub> |
| 0.0300         | 0.5369             | 0.0400           | 0.5447             |
| 0.0500         | 0.5728             | 0.0700           | 0.5922             |
| 0.1100         | 0.6303             | 0.1200           | 0.6577             |
| 0.1700         | 0.6846             | 0.1800           | 0.7156             |
| 0.2200         | 0.7212             | 0.2100           | 0.7595             |
| 0.2700         | 0.7634             | 0.2700           | 0.8120             |
| 0.3200         | 0.7997             | 0.3100           | 0.8550             |
| 0.3600         | 0.8366             | 0.3700           | 0.8960             |
| 0.4100         | 0.8692             | 0.4200           | 0.9336             |
| 0.5100         | 0.9307             | 0.5300           | 0.9869             |
| 0.7200         | 0.9983             | 0.7300           | 1.0019             |
| 0.9100         | 0.9995             | 0.9400           | 1.0027             |
| 1.1100         | 1.0012             | 1.1500           | 0.9997             |
| 1.3000         | 1.0007             | 1.3500           | 0.9975             |
| 1.5300         | 0.9961             | 1.5500           | 1.0018             |
| 1.7400         | 1.0011             | 1.7500           | 1.0020             |
| 1.9400         | 1.0010             | 1.9500           | 1.0025             |
| 2.1400         | 1.0001             | 2.1600           | 1.0011             |
| 2.3500         | 1.0009             | 2.3700           | 1.0017             |
| 2.5500         | 1.0012             | 2.5800           | 1.0021             |

Flight 11 Test point 16

Sweep, deg = 29.7 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 384.8 Rnpu = 3161000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7332                     | 0.1850                      | 0.0936                  | none             |
| Outboard station rake | 0.5675                     | 0.1571                      | 0.0736                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y              | U/Umax | Y                | U/Umax |
| 0.0300         | 0.5147 | 0.0400           | 0.4979 |
| 0.0500         | 0.5515 | 0.0700           | 0.5532 |
| 0.1100         | 0.6097 | 0.1200           | 0.6236 |
| 0.1700         | 0.6617 | 0.1800           | 0.6830 |
| 0.2200         | 0.6978 | 0.2100           | 0.7286 |
| 0.2700         | 0.7392 | 0.2700           | 0.7845 |
| 0.3200         | 0.7748 | 0.3100           | 0.8314 |
| 0.3600         | 0.8122 | 0.3700           | 0.8756 |
| 0.4100         | 0.8466 | 0.4200           | 0.9167 |
| 0.5100         | 0.9114 | 0.5300           | 0.9804 |
| 0.7200         | 0.9954 | 0.7300           | 1.0028 |
| 0.9100         | 1.0002 | 0.9400           | 1.0036 |
| 1.1100         | 1.0013 | 1.1500           | 1.0005 |
| 1.3000         | 1.0011 | 1.3500           | 0.9983 |
| 1.5300         | 0.9965 | 1.5500           | 1.0024 |
| 1.7400         | 1.0016 | 1.7500           | 1.0017 |
| 1.9400         | 1.0008 | 1.9500           | 1.0033 |
| 2.1400         | 1.0007 | 2.1600           | 1.0019 |
| 2.3500         | 1.0011 | 2.3700           | 1.0025 |
| 2.5500         | 1.0013 | 2.5800           | 1.0025 |

Flight 11 Test point 17

Sweep, deg = 25.3 Mach = 0.76 hp, ft = 19900. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 388.7 Rnpu = 3183000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7210                     | 0.1886                      | 0.0905                  | none             |
| Outboard station rake | 0.5456                     | 0.1652                      | 0.0705                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y              | U/U <sub>max</sub> | Y                | U/U <sub>max</sub> |
| 0.0300         | 0.4026             | 0.0400           | 0.3239             |
| 0.0500         | 0.4835             | 0.0700           | 0.4644             |
| 0.1100         | 0.5769             | 0.1200           | 0.5859             |
| 0.1700         | 0.6447             | 0.1800           | 0.6664             |
| 0.2200         | 0.6870             | 0.2100           | 0.7197             |
| 0.2700         | 0.7345             | 0.2700           | 0.7826             |
| 0.3200         | 0.7767             | 0.3100           | 0.8357             |
| 0.3600         | 0.8189             | 0.3700           | 0.8882             |
| 0.4100         | 0.8577             | 0.4200           | 0.9342             |
| 0.5100         | 0.9293             | 0.5300           | 0.9925             |
| 0.7200         | 0.9997             | 0.7300           | 1.0014             |
| 0.9100         | 0.9998             | 0.9400           | 1.0022             |
| 1.1100         | 1.0007             | 1.1500           | 0.9993             |
| 1.3000         | 1.0005             | 1.3500           | 0.9970             |
| 1.5300         | 0.9962             | 1.5500           | 1.0012             |
| 1.7400         | 1.0011             | 1.7500           | 1.0012             |
| 1.9400         | 1.0004             | 1.9500           | 1.0018             |
| 2.1400         | 1.0002             | 2.1600           | 1.0007             |
| 2.3500         | 1.0007             | 2.3700           | 1.0014             |
| 2.5500         | 1.0008             | 2.5800           | 1.0014             |

Flight 11 Test point 18

Sweep, deg = 25.3 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 383.9 Rnpu = 3157000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7199                     | 0.1868                      | 0.0894                  | none             |
| Outboard station rake | 0.4629                     | 0.1463                      | 0.0617                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y              | U/U <sub>max</sub> | Y                | U/U <sub>max</sub> |
| 0.0300         | 0.3970             | 0.0400           | 0.3545             |
| 0.0500         | 0.4824             | 0.0700           | 0.4912             |
| 0.1100         | 0.5782             | 0.1200           | 0.6129             |
| 0.1700         | 0.6478             | 0.1800           | 0.6992             |
| 0.2200         | 0.6902             | 0.2100           | 0.7567             |
| 0.2700         | 0.7366             | 0.2700           | 0.8218             |
| 0.3200         | 0.7788             | 0.3100           | 0.8755             |
| 0.3600         | 0.8218             | 0.3700           | 0.9267             |
| 0.4100         | 0.8611             | 0.4200           | 0.9675             |
| 0.5100         | 0.9336             | 0.5300           | 1.0011             |
| 0.7200         | 1.0000             | 0.7300           | 1.0036             |
| 0.9100         | 0.9997             | 0.9400           | 1.0046             |
| 1.1100         | 1.0007             | 1.1500           | 1.0015             |
| 1.3000         | 1.0007             | 1.3500           | 0.9994             |
| 1.5300         | 0.9962             | 1.5500           | 1.0035             |
| 1.7400         | 1.0013             | 1.7500           | 1.0030             |
| 1.9400         | 1.0001             | 1.9500           | 1.0045             |
| 2.1400         | 1.0001             | 2.1600           | 1.0032             |
| 2.3500         | 1.0003             | 2.3700           | 1.0039             |
| 2.5500         | 1.0010             | 2.5800           | 1.0041             |

Flight 11 Test point 19

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 19900. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 386.3 Rnpu = 3169000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4205                     | 0.1392                      | 0.0549                  | none             |
| Outboard station rake | 0.3740                     | 0.1303                      | 0.0474                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y              | U/U <sub>max</sub> | Y                | U/U <sub>max</sub> |
| 0.0300         | 0.3279             | 0.0400           | 0.3213             |
| 0.0500         | 0.2871             | 0.0700           | 0.3375             |
| 0.1100         | 0.5678             | 0.1200           | 0.6041             |
| 0.1700         | 0.7096             | 0.1800           | 0.7400             |
| 0.2200         | 0.7884             | 0.2100           | 0.8225             |
| 0.2700         | 0.8585             | 0.2700           | 0.9035             |
| 0.3200         | 0.9172             | 0.3100           | 0.9573             |
| 0.3600         | 0.9618             | 0.3700           | 0.9890             |
| 0.4100         | 0.9868             | 0.4200           | 0.9995             |
| 0.5100         | 0.9995             | 0.5200           | 0.9992             |
| 0.7200         | 1.0020             | 0.7300           | 1.0013             |
| 0.9100         | 1.0008             | 0.9400           | 1.0024             |
| 1.1100         | 1.0016             | 1.1500           | 0.9996             |
| 1.3000         | 1.0017             | 1.3500           | 0.9975             |
| 1.5300         | 0.9984             | 1.5500           | 1.0015             |
| 1.7400         | 1.0023             | 1.7500           | 1.0018             |
| 1.9400         | 1.0016             | 1.9500           | 1.0026             |
| 2.1400         | 1.0014             | 2.1600           | 1.0013             |
| 2.3500         | 1.0017             | 2.3700           | 1.0020             |
| 2.5500         | 1.0023             | 2.5800           | 1.0022             |

Flight 11 Test point 20

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 385.0 Rnpu = 3161000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4881                     | 0.1065                      | 0.0516                  | none             |
| Outboard station rake | 0.5763                     | 0.1199                      | 0.0568                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y              | U/U <sub>max</sub> | Y                | U/U <sub>max</sub> |
| 0.0300         | 0.4513             | 0.0400           | 0.4533             |
| 0.0500         | 0.5976             | 0.0700           | 0.6179             |
| 0.1100         | 0.7290             | 0.1200           | 0.7327             |
| 0.1700         | 0.8086             | 0.1800           | 0.8011             |
| 0.2200         | 0.8525             | 0.2100           | 0.8322             |
| 0.2700         | 0.8900             | 0.2700           | 0.8726             |
| 0.3200         | 0.9216             | 0.3100           | 0.9054             |
| 0.3600         | 0.9480             | 0.3700           | 0.9316             |
| 0.4100         | 0.9650             | 0.4200           | 0.9547             |
| 0.5100         | 0.9901             | 0.5300           | 0.9846             |
| 0.7200         | 1.0042             | 0.7300           | 1.0021             |
| 0.9100         | 1.0026             | 0.9400           | 1.0035             |
| 1.1100         | 1.0022             | 1.1500           | 0.9994             |
| 1.3000         | 1.0007             | 1.3500           | 0.9967             |
| 1.5300         | 0.9972             | 1.5500           | 1.0017             |
| 1.7400         | 1.0009             | 1.7500           | 1.0011             |
| 1.9400         | 1.0005             | 1.9500           | 1.0028             |
| 2.1400         | 1.0002             | 2.1600           | 1.0021             |
| 2.3500         | 1.0005             | 2.3700           | 1.0028             |
| 2.5500         | 1.0010             | 2.5800           | 1.0032             |

Flight 11 Test point 21

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 19900. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 436.6 Rnpu = 3394000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | 0.7169                        | 0.2695                         | 0.0915                     | none                |
| Outboard station rake | 0.7218                        | 0.2451                         | 0.0837                     | none                |

|  | Middle station |                    | Outboard station |                    |
|--|----------------|--------------------|------------------|--------------------|
|  | Y              | U/U <sub>max</sub> | Y                | U/U <sub>max</sub> |
|  | 0.0300         | 0.5050             | 0.0400           | 0.5718             |
|  | 0.0500         | 0.4610             | 0.0700           | 0.5277             |
|  | 0.1100         | 0.2786             | 0.1200           | 0.3326             |
|  | 0.1700         | 0.2828             | 0.1800           | 0.2230             |
|  | 0.2200         | 0.4443             | 0.2100           | 0.4282             |
|  | 0.2700         | 0.5607             | 0.2700           | 0.5786             |
|  | 0.3200         | 0.6574             | 0.3100           | 0.6866             |
|  | 0.3600         | 0.7377             | 0.3700           | 0.7643             |
|  | 0.4100         | 0.8102             | 0.4200           | 0.8628             |
|  | 0.5100         | 0.9228             | 0.5300           | 0.9719             |
|  | 0.7200         | 1.0010             | 0.7300           | 1.0010             |
|  | 0.9100         | 1.0006             | 0.9400           | 1.0019             |
|  | 1.1100         | 1.0013             | 1.1500           | 0.9999             |
|  | 1.3000         | 1.0009             | 1.3500           | 0.9987             |
|  | 1.5300         | 0.9989             | 1.5500           | 1.0013             |
|  | 1.7400         | 1.0015             | 1.7500           | 1.0011             |
|  | 1.9400         | 1.0008             | 1.9500           | 1.0016             |
|  | 2.1400         | 1.0001             | 2.1600           | 1.0003             |
|  | 2.3500         | 0.9982             | 2.3700           | 0.9976             |
|  | 2.5500         | 0.9966             | 2.5800           | 0.9966             |

Flight 11 Test point 22

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20100. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 437.2 Rnpu = 3391000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7412                     | 0.3306                      | 0.0867                  | none             |
| Outboard station rake | 0.6730                     | 0.2493                      | 0.0784                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y              | U/U <sub>max</sub> | Y                | U/U <sub>max</sub> |
| 0.0300         | 0.2639             | 0.0400           | 0.5482             |
| 0.0500         | 0.2539             | 0.0700           | 0.5143             |
| 0.1100         | 0.1590             | 0.1200           | 0.3277             |
| 0.1700         | 0.1562             | 0.1800           | 0.1815             |
| 0.2200         | 0.2862             | 0.2100           | 0.4011             |
| 0.2700         | 0.4083             | 0.2700           | 0.5613             |
| 0.3200         | 0.5224             | 0.3100           | 0.6804             |
| 0.3600         | 0.6302             | 0.3700           | 0.7872             |
| 0.4100         | 0.7353             | 0.4200           | 0.8736             |
| 0.5100         | 0.8977             | 0.5300           | 0.9858             |
| 0.7200         | 0.9994             | 0.7300           | 1.0049             |
| 0.9100         | 1.0046             | 0.9400           | 1.0057             |
| 1.1100         | 1.0056             | 1.1500           | 1.0041             |
| 1.3000         | 1.0051             | 1.3500           | 1.0025             |
| 1.5300         | 1.0024             | 1.5500           | 1.0041             |
| 1.7400         | 1.0043             | 1.7500           | 1.0022             |
| 1.9400         | 1.0029             | 1.9500           | 1.0018             |
| 2.1400         | 0.9958             | 2.1600           | 0.9914             |
| 2.3500         | 0.9906             | 2.3700           | 0.9929             |
| 2.5500         | 0.9887             | 2.5800           | 0.9903             |



Flight 11 Test point 23

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20100. Angle of attack, deg = 2.3  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 434.0 R<sub>npu</sub> = 3373000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7068                     | 0.3237                      | 0.0825                  | none             |
| Outboard station rake | 0.4462                     | 0.2149                      | 0.0631                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y              | U/U <sub>max</sub> | Y                | U/U <sub>max</sub> |
| 0.0300         | 0.0846             | 0.0400           | 0.5066             |
| 0.0500         | 0.0944             | 0.0700           | 0.4522             |
| 0.1100         | 0.1529             | 0.1200           | 0.1986             |
| 0.1700         | 0.2594             | 0.1800           | 0.3400             |
| 0.2200         | 0.3395             | 0.2100           | 0.5095             |
| 0.2700         | 0.4413             | 0.2700           | 0.6699             |
| 0.3200         | 0.5367             | 0.3100           | 0.7924             |
| 0.3600         | 0.6371             | 0.3700           | 0.9009             |
| 0.4100         | 0.7416             | 0.4200           | 0.9668             |
| 0.5100         | 0.9148             | 0.5300           | 1.0032             |
| 0.7200         | 1.0051             | 0.7300           | 1.0066             |
| 0.9100         | 1.0063             | 0.9400           | 1.0072             |
| 1.1100         | 1.0068             | 1.1500           | 1.0047             |
| 1.3000         | 1.0055             | 1.3500           | 1.0022             |
| 1.5300         | 1.0014             | 1.5500           | 1.0047             |
| 1.7400         | 1.0039             | 1.7500           | 1.0031             |
| 1.9400         | 1.0015             | 1.9500           | 0.9960             |
| 2.1400         | 0.9950             | 2.1600           | 0.9933             |
| 2.3500         | 0.9888             | 2.3700           | 0.9896             |
| 2.5500         | 0.9857             | 2.5800           | 0.9893             |

Flight 11 Test point 24

Sweep, deg = 24.9 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 435.3 Rrho = 3383000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.8908                     | 0.2804                      | 0.0976                  | none             |
| Outboard station rake | 0.7254                     | 0.2422                      | 0.0823                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y              | U/U <sub>max</sub> | Y                | U/U <sub>max</sub> |
| 0.0300         | 0.1167             | 0.0400           | 0.3928             |
| 0.0500         | 0.1623             | 0.0700           | 0.2991             |
| 0.1100         | 0.3305             | 0.1200           | 0.2514             |
| 0.1700         | 0.4416             | 0.1800           | 0.4379             |
| 0.2200         | 0.5104             | 0.2100           | 0.5416             |
| 0.2700         | 0.5830             | 0.2700           | 0.6474             |
| 0.3200         | 0.6498             | 0.3100           | 0.7310             |
| 0.3600         | 0.7154             | 0.3700           | 0.8090             |
| 0.4100         | 0.7765             | 0.4200           | 0.8719             |
| 0.5100         | 0.8805             | 0.5300           | 0.9648             |
| 0.7200         | 0.9977             | 0.7300           | 1.0007             |
| 0.9100         | 1.0002             | 0.9400           | 1.0014             |
| 1.1100         | 1.0009             | 1.1500           | 0.9996             |
| 1.3000         | 1.0005             | 1.3500           | 0.9982             |
| 1.5300         | 0.9947             | 1.5500           | 1.0009             |
| 1.7400         | 1.0014             | 1.7500           | 1.0007             |
| 1.9400         | 1.0007             | 1.9500           | 1.0013             |
| 2.1400         | 1.0003             | 2.1600           | 1.0002             |
| 2.3500         | 1.0007             | 2.3700           | 0.9991             |
| 2.5500         | 1.0005             | 2.5800           | 0.9979             |

Flight 11 Test point 25

Sweep, deg = 24.9 Mach = 0.80 hp, ft = 20100. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 437.9 Rrho = 3390000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7152                     | 0.3004                      | 0.0914                  | none             |
| Outboard station rake | 0.7157                     | 0.2889                      | 0.0790                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y              | U/U <sub>max</sub> | Y                | U/U <sub>max</sub> |
| 0.0300         | 0.2896             | 0.0400           | 0.1289             |
| 0.0500         | 0.2450             | 0.0700           | 0.0442             |
| 0.1100         | 0.1637             | 0.1200           | 0.2462             |
| 0.1700         | 0.3561             | 0.1800           | 0.3537             |
| 0.2200         | 0.4569             | 0.2100           | 0.4402             |
| 0.2700         | 0.5503             | 0.2700           | 0.5524             |
| 0.3200         | 0.6333             | 0.3100           | 0.6489             |
| 0.3600         | 0.7079             | 0.3700           | 0.7448             |
| 0.4100         | 0.7754             | 0.4200           | 0.8256             |
| 0.5100         | 0.8844             | 0.5300           | 0.9475             |
| 0.7200         | 1.0024             | 0.7300           | 1.0036             |
| 0.9100         | 1.0054             | 0.9400           | 1.0043             |
| 1.1100         | 1.0057             | 1.1500           | 1.0022             |
| 1.3000         | 1.0054             | 1.3500           | 1.0008             |
| 1.5300         | 1.0028             | 1.5500           | 1.0034             |
| 1.7400         | 1.0050             | 1.7500           | 1.0031             |
| 1.9400         | 1.0041             | 1.9500           | 1.0027             |
| 2.1400         | 0.9953             | 2.1600           | 0.9960             |
| 2.3500         | 0.9881             | 2.3700           | 0.9935             |
| 2.5500         | 0.9882             | 2.5800           | 0.9904             |

Flight 11 Test point 26

Sweep, deg = 24.9 Mach = 0.81 hp, ft = 20100. Angle of attack, deg = 2.5  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 438.1 Rnpu = 3391000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 1.8409                     | 0.9186                      | 0.2042                  | none             |
| Outboard station rake | 1.1676                     | 0.5094                      | 0.1144                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y              | U/Umax | Y                | U/Umax |
| 0.0300         | 0.1106 | 0.0400           | 0.1367 |
| 0.0500         | 0.1172 | 0.0700           | 0.1488 |
| 0.1100         | 0.1410 | 0.1200           | 0.1557 |
| 0.1700         | 0.1568 | 0.1800           | 0.1720 |
| 0.2200         | 0.1763 | 0.2100           | 0.1892 |
| 0.2700         | 0.1764 | 0.2700           | 0.1205 |
| 0.3200         | 0.2026 | 0.3100           | 0.1397 |
| 0.3600         | 0.1900 | 0.3700           | 0.2608 |
| 0.4100         | 0.2017 | 0.4200           | 0.3767 |
| 0.5100         | 0.2128 | 0.5300           | 0.5721 |
| 0.7200         | 0.1997 | 0.7300           | 0.8861 |
| 0.9100         | 0.4875 | 0.9400           | 0.9886 |
| 1.1100         | 0.7328 | 1.1500           | 0.9992 |
| 1.3000         | 0.8808 | 1.3500           | 0.9986 |
| 1.5300         | 0.9696 | 1.5500           | 1.0015 |
| 1.7400         | 0.9907 | 1.7500           | 1.0013 |
| 1.9400         | 0.9998 | 1.9500           | 1.0012 |
| 2.1400         | 1.0025 | 2.1600           | 0.9996 |
| 2.3500         | 1.0033 | 2.3700           | 0.9995 |
| 2.5500         | 1.0038 | 2.5800           | 0.9992 |

Flight 11 Test point 27

Sweep, deg = 30.4 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 437.7 R<sub>npu</sub> = 3391000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9170                     | 0.2165                      | 0.1020                  | none             |
| Outboard station rake | 0.7214                     | 0.1835                      | 0.0827                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y              | U/U <sub>max</sub> | Y                | U/U <sub>max</sub> |
| 0.0300         | 0.4533             | 0.0400           | 0.4436             |
| 0.0500         | 0.4877             | 0.0700           | 0.4985             |
| 0.1100         | 0.5414             | 0.1200           | 0.5672             |
| 0.1700         | 0.5937             | 0.1800           | 0.6264             |
| 0.2200         | 0.6314             | 0.2100           | 0.6731             |
| 0.2700         | 0.6781             | 0.2700           | 0.7337             |
| 0.3200         | 0.7214             | 0.3100           | 0.7870             |
| 0.3600         | 0.7663             | 0.3700           | 0.8416             |
| 0.4100         | 0.8107             | 0.4200           | 0.8918             |
| 0.5100         | 0.8940             | 0.5300           | 0.9727             |
| 0.7200         | 0.9963             | 0.7300           | 1.0011             |
| 0.9100         | 0.9999             | 0.9400           | 1.0017             |
| 1.1100         | 1.0006             | 1.1500           | 0.9993             |
| 1.3000         | 1.0001             | 1.3500           | 0.9972             |
| 1.5300         | 0.9999             | 1.5500           | 1.0007             |
| 1.7400         | 1.0006             | 1.7500           | 1.0004             |
| 1.9400         | 1.0000             | 1.9500           | 1.0008             |
| 2.1400         | 0.9994             | 2.1600           | 0.9991             |
| 2.3500         | 0.9999             | 2.3700           | 0.9998             |
| 2.5500         | 0.9998             | 2.5800           | 0.9998             |

Flight 11 Test point 28

Sweep, deg = 30.4 Mach = 0.80 hp, ft = 20100. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 437.4 R<sub>npu</sub> = 3386000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | 0.9112                        | 0.2787                         | 0.1128                     | none                |
| Outboard station rake | 0.7257                        | 0.2757                         | 0.0948                     | none                |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y              | U/U <sub>max</sub> | Y                | U/U <sub>max</sub> |
| 0.0300         | 0.3309             | 0.0400           | 0.2068             |
| 0.0500         | 0.3541             | 0.0700           | 0.2496             |
| 0.1100         | 0.4039             | 0.1200           | 0.3358             |
| 0.1700         | 0.4635             | 0.1800           | 0.4111             |
| 0.2200         | 0.5103             | 0.2100           | 0.4745             |
| 0.2700         | 0.5702             | 0.2700           | 0.5626             |
| 0.3200         | 0.6257             | 0.3100           | 0.6419             |
| 0.3600         | 0.6845             | 0.3700           | 0.7246             |
| 0.4100         | 0.7416             | 0.4200           | 0.7989             |
| 0.5100         | 0.8445             | 0.5300           | 0.9209             |
| 0.7200         | 0.9867             | 0.7300           | 1.0015             |
| 0.9100         | 0.9999             | 0.9400           | 1.0023             |
| 1.1100         | 1.0007             | 1.1500           | 1.0002             |
| 1.3000         | 1.0000             | 1.3500           | 0.9985             |
| 1.5300         | 1.0000             | 1.5500           | 1.0015             |
| 1.7400         | 1.0004             | 1.7500           | 1.0012             |
| 1.9400         | 0.9999             | 1.9500           | 1.0018             |
| 2.1400         | 0.9995             | 2.1600           | 0.9993             |
| 2.3500         | 0.9999             | 2.3700           | 0.9975             |
| 2.5500         | 0.9996             | 2.5800           | 0.9961             |

Flight 11 Test point 29

Sweep, deg = 30.4 Mach = 0.80 hp, ft = 20100. Angle of attack, deg = 2.3  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 435.0 Rrho = 3374000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9119                     | 0.3708                      | 0.1223                  | none             |
| Outboard station rake | 0.7213                     | 0.2689                      | 0.0896                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y              | U/U <sub>max</sub> | Y                | U/U <sub>max</sub> |
| 0.0300         | 0.2380             | 0.0400           | 0.2145             |
| 0.0500         | 0.2375             | 0.0700           | 0.2536             |
| 0.1100         | 0.2620             | 0.1200           | 0.3479             |
| 0.1700         | 0.3070             | 0.1800           | 0.4289             |
| 0.2200         | 0.3495             | 0.2100           | 0.4999             |
| 0.2700         | 0.4144             | 0.2700           | 0.5928             |
| 0.3200         | 0.4718             | 0.3100           | 0.6734             |
| 0.3600         | 0.5390             | 0.3700           | 0.7555             |
| 0.4100         | 0.6078             | 0.4200           | 0.8253             |
| 0.5100         | 0.7371             | 0.5300           | 0.9331             |
| 0.7200         | 0.9488             | 0.7300           | 1.0027             |
| 0.9100         | 0.9995             | 0.9400           | 1.0034             |
| 1.1100         | 1.0007             | 1.1500           | 1.0015             |
| 1.3000         | 1.0003             | 1.3500           | 1.0001             |
| 1.5300         | 1.0001             | 1.5500           | 1.0025             |
| 1.7400         | 1.0006             | 1.7500           | 1.0023             |
| 1.9400         | 1.0003             | 1.9500           | 1.0021             |
| 2.1400         | 0.9995             | 2.1600           | 1.0004             |
| 2.3500         | 0.9998             | 2.3700           | 0.9942             |
| 2.5500         | 0.9992             | 2.5800           | 0.9907             |

Flight 11 Test point 30

Sweep, deg = 34.9 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 433.9 R<sub>npu</sub> = 3375000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7370                     | 0.1936                      | 0.0963                  | none             |
| Outboard station rake | 0.5797                     | 0.1603                      | 0.0754                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y              | U/U <sub>max</sub> | Y                | U/U <sub>max</sub> |
| 0.0300         | 0.5159             | 0.0400           | 0.5326             |
| 0.0500         | 0.5440             | 0.0700           | 0.5671             |
| 0.1100         | 0.5952             | 0.1200           | 0.6259             |
| 0.1700         | 0.6460             | 0.1800           | 0.6785             |
| 0.2200         | 0.6828             | 0.2100           | 0.7220             |
| 0.2700         | 0.7248             | 0.2700           | 0.7759             |
| 0.3200         | 0.7627             | 0.3100           | 0.8220             |
| 0.3600         | 0.8004             | 0.3700           | 0.8674             |
| 0.4100         | 0.8359             | 0.4200           | 0.9080             |
| 0.5100         | 0.9036             | 0.5300           | 0.9735             |
| 0.7200         | 0.9936             | 0.7300           | 1.0033             |
| 0.9100         | 0.9999             | 0.9400           | 1.0040             |
| 1.1100         | 1.0012             | 1.1500           | 1.0014             |
| 1.3000         | 1.0007             | 1.3500           | 0.9995             |
| 1.5300         | 0.9999             | 1.5500           | 1.0030             |
| 1.7400         | 1.0013             | 1.7500           | 1.0027             |
| 1.9400         | 1.0007             | 1.9500           | 1.0038             |
| 2.1400         | 1.0004             | 2.1600           | 1.0026             |
| 2.3500         | 1.0011             | 2.3700           | 1.0032             |
| 2.5500         | 1.0012             | 2.5800           | 1.0030             |



Flight 11 Test point 31

Sweep, deg = 34.9 Mach = 0.81 hp, ft = 20200. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 437.6 Rrho = 3389000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9185                     | 0.2303                      | 0.1098                  | none             |
| Outboard station rake | 0.7236                     | 0.1873                      | 0.0881                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y              | U/U <sub>max</sub> | Y                | U/U <sub>max</sub> |
| 0.0300         | 0.4740             | 0.0400           | 0.5036             |
| 0.0500         | 0.4981             | 0.0700           | 0.5365             |
| 0.1100         | 0.5426             | 0.1200           | 0.5904             |
| 0.1700         | 0.5897             | 0.1800           | 0.6385             |
| 0.2200         | 0.6223             | 0.2100           | 0.6779             |
| 0.2700         | 0.6640             | 0.2700           | 0.7297             |
| 0.3200         | 0.7019             | 0.3100           | 0.7758             |
| 0.3600         | 0.7429             | 0.3700           | 0.8229             |
| 0.4100         | 0.7831             | 0.4200           | 0.8680             |
| 0.5100         | 0.8625             | 0.5300           | 0.9483             |
| 0.7200         | 0.9853             | 0.7300           | 1.0015             |
| 0.9100         | 0.9994             | 0.9400           | 1.0022             |
| 1.1100         | 1.0004             | 1.1500           | 0.9987             |
| 1.3000         | 0.9998             | 1.3500           | 0.9961             |
| 1.5300         | 0.9993             | 1.5500           | 1.0002             |
| 1.7400         | 1.0005             | 1.7500           | 1.0006             |
| 1.9400         | 1.0002             | 1.9500           | 1.0014             |
| 2.1400         | 0.9998             | 2.1600           | 0.9998             |
| 2.3500         | 1.0003             | 2.3700           | 0.9999             |
| 2.5500         | 1.0005             | 2.5800           | 0.9995             |

Flight 11 Test point 32

Sweep, deg = 34.9 Mach = 0.71 hp, ft = 35000. Angle of attack, deg = 3.9  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 172.8 Rrho = 1692000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9441                     | 0.2177                      | 0.1144                  | none             |
| Outboard station rake | 0.7354                     | 0.1790                      | 0.0901                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y              | U/U <sub>max</sub> | Y                | U/U <sub>max</sub> |
| 0.0300         | 0.5224             | 0.0400           | 0.5327             |
| 0.0500         | 0.5436             | 0.0700           | 0.5651             |
| 0.1100         | 0.5943             | 0.1200           | 0.6241             |
| 0.1700         | 0.6426             | 0.1800           | 0.6721             |
| 0.2200         | 0.6691             | 0.2100           | 0.7006             |
| 0.2700         | 0.7078             | 0.2700           | 0.7492             |
| 0.3200         | 0.7335             | 0.3100           | 0.7921             |
| 0.3600         | 0.7704             | 0.3700           | 0.8268             |
| 0.4100         | 0.7957             | 0.4200           | 0.8672             |
| 0.5100         | 0.8531             | 0.5300           | 0.9293             |
| 0.7200         | 0.9578             | 0.7300           | 0.9984             |
| 0.9100         | 0.9942             | 0.9400           | 1.0034             |
| 1.1100         | 1.0001             | 1.1500           | 0.9964             |
| 1.3000         | 1.0007             | 1.3500           | 0.9907             |
| 1.5300         | 1.0020             | 1.5500           | 1.0019             |
| 1.7400         | 1.0017             | 1.7500           | 1.0017             |
| 1.9400         | 1.0010             | 1.9500           | 1.0033             |
| 2.1400         | 1.0006             | 2.1600           | 1.0009             |
| 2.3500         | 0.9993             | 2.3700           | 1.0004             |
| 2.5500         | 1.0004             | 2.5800           | 1.0029             |

Flight 11 Test point 33

Sweep, deg = 34.5 Mach = 0.69 hp, ft = 35400. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 163.3 Rrho = 1630000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5329                     | 0.1231                      | 0.0645                  | none             |
| Outboard station rake | 0.3288                     | 0.0805                      | 0.0373                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y              | U/Umax | Y                | U/Umax |
| 0.0300         | 0.5804 | 0.0400           | 0.6492 |
| 0.0500         | 0.6075 | 0.0700           | 0.6867 |
| 0.1100         | 0.6720 | 0.1200           | 0.7732 |
| 0.1700         | 0.7386 | 0.1800           | 0.8448 |
| 0.2200         | 0.7789 | 0.2100           | 0.8938 |
| 0.2700         | 0.8321 | 0.2700           | 0.9510 |
| 0.3200         | 0.8709 | 0.3100           | 0.9851 |
| 0.3600         | 0.9151 | 0.3700           | 0.9961 |
| 0.4100         | 0.9459 | 0.4200           | 1.0035 |
| 0.5100         | 0.9888 | 0.5300           | 1.0013 |
| 0.7200         | 1.0030 | 0.7300           | 1.0034 |
| 0.9100         | 0.9979 | 0.9400           | 1.0057 |
| 1.1100         | 1.0014 | 1.1500           | 0.9968 |
| 1.3000         | 1.0020 | 1.3500           | 0.9896 |
| 1.5300         | 0.9993 | 1.5500           | 1.0025 |
| 1.7400         | 1.0029 | 1.7500           | 1.0037 |
| 1.9400         | 1.0017 | 1.9500           | 1.0057 |
| 2.1400         | 1.0026 | 2.1600           | 1.0007 |
| 2.3500         | 0.9997 | 2.3700           | 1.0014 |
| 2.5500         | 1.0008 | 2.5800           | 1.0043 |

Flight 11 Test point 34

Sweep, deg = 34.5 Mach = 0.71 hp, ft = 36200. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 163.4 Rnpu = 1614000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4930                     | 0.1224                      | 0.0626                  | none             |
| Outboard station rake | 0.3391                     | 0.0871                      | 0.0404                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y              | U/U <sub>max</sub> | Y                | U/U <sub>max</sub> |
| 0.0300         | 0.5801             | 0.0400           | 0.6300             |
| 0.0500         | 0.6026             | 0.0700           | 0.6717             |
| 0.1100         | 0.6681             | 0.1200           | 0.7566             |
| 0.1700         | 0.7374             | 0.1800           | 0.8237             |
| 0.2200         | 0.7826             | 0.2100           | 0.8742             |
| 0.2700         | 0.8347             | 0.2700           | 0.9326             |
| 0.3200         | 0.8755             | 0.3100           | 0.9729             |
| 0.3600         | 0.9207             | 0.3700           | 0.9922             |
| 0.4100         | 0.9527             | 0.4200           | 1.0021             |
| 0.5100         | 0.9925             | 0.5300           | 1.0014             |
| 0.7200         | 1.0015             | 0.7300           | 1.0020             |
| 0.9100         | 0.9990             | 0.9400           | 1.0035             |
| 1.1100         | 1.0007             | 1.1500           | 0.9965             |
| 1.3000         | 1.0022             | 1.3500           | 0.9893             |
| 1.5300         | 0.9992             | 1.5500           | 1.0019             |
| 1.7400         | 1.0026             | 1.7500           | 1.0012             |
| 1.9400         | 1.0015             | 1.9500           | 1.0045             |
| 2.1400         | 1.0007             | 2.1600           | 1.0007             |
| 2.3500         | 0.9992             | 2.3700           | 1.0002             |
| 2.5500         | 1.0010             | 2.5800           | 1.0045             |

Flight 11 Test point 35

Sweep, deg = 34.5 Mach = 0.71 hp, ft = 35500. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 169.5 Rnpu = 1662000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5718                     | 0.1405                      | 0.0732                  | none             |
| Outboard station rake | 0.3877                     | 0.0947                      | 0.0448                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y              | U/Umax | Y                | U/Umax |
| 0.0300         | 0.5692 | 0.0400           | 0.6239 |
| 0.0500         | 0.5941 | 0.0700           | 0.6574 |
| 0.1100         | 0.6562 | 0.1200           | 0.7376 |
| 0.1700         | 0.7143 | 0.1800           | 0.8030 |
| 0.2200         | 0.7503 | 0.2100           | 0.8500 |
| 0.2700         | 0.7993 | 0.2700           | 0.9102 |
| 0.3200         | 0.8372 | 0.3100           | 0.9555 |
| 0.3600         | 0.8788 | 0.3700           | 0.9818 |
| 0.4100         | 0.9109 | 0.4200           | 0.9998 |
| 0.5100         | 0.9684 | 0.5300           | 1.0012 |
| 0.7200         | 1.0048 | 0.7300           | 1.0027 |
| 0.9100         | 1.0007 | 0.9400           | 1.0052 |
| 1.1100         | 1.0045 | 1.1500           | 0.9974 |
| 1.3000         | 1.0043 | 1.3500           | 0.9907 |
| 1.5300         | 1.0005 | 1.5500           | 1.0028 |
| 1.7400         | 1.0059 | 1.7500           | 1.0034 |
| 1.9400         | 1.0029 | 1.9500           | 1.0069 |
| 2.1400         | 1.0038 | 2.1600           | 1.0017 |
| 2.3500         | 1.0011 | 2.3700           | 1.0018 |
| 2.5500         | 1.0031 | 2.5800           | 1.0048 |

Flight 12 Test point 1

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 4.8  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 171.1 Rnpu = 1681000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9656                     | 0.2314                      | 0.1220                  | none             |
| Outboard station rake | 0.8976                     | 0.1978                      | 0.1006                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5234 | 0.0400           | 0.5372 |
| 0.0500         | 0.5421 | 0.0700           | 0.5625 |
| 0.1100         | 0.5958 | 0.1200           | 0.6194 |
| 0.1700         | 0.6391 | 0.1800           | 0.6573 |
| 0.2200         | 0.6678 | 0.2100           | 0.6828 |
| 0.2700         | 0.7042 | 0.2700           | 0.7277 |
| 0.3200         | 0.7286 | 0.3100           | 0.7698 |
| 0.3600         | 0.7596 | 0.3700           | 0.7994 |
| 0.4100         | 0.7810 | 0.4200           | 0.8368 |
| 0.5100         | 0.8313 | 0.5300           | 0.8918 |
| 0.7200         | 0.9364 | 0.7300           | 0.9869 |
| 0.9100         | 0.9868 | 0.9400           | 1.0029 |
| 1.1100         | 1.0007 | 1.1500           | 0.9957 |
| 1.3000         | 1.0017 | 1.3500           | 0.9888 |
| 1.5300         | 0.9973 | 1.5500           | 1.0001 |
| 1.7400         | 1.0028 | 1.7500           | 1.0003 |
| 1.9400         | 1.0014 | 1.9500           | 1.0053 |
| 2.1400         | 1.0043 | 2.1600           | 1.0007 |
| 2.3500         | 1.0013 | 2.3700           | 1.0020 |
| 2.5500         | 1.0037 | 2.5800           | 1.0042 |

Flight 12 Test point 2

Sweep, deg = 34.5 Mach = 0.70 hp, ft = 34300. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 177.2 R<sub>npu</sub> = 1727000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5578                     | 0.1344                      | 0.0703                  | none             |
| Outboard station rake | 0.4517                     | 0.1123                      | 0.0544                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5747             | 0.0400           | 0.5914             |
| 0.0500         | 0.6056             | 0.0700           | 0.6238             |
| 0.1100         | 0.6687             | 0.1200           | 0.7011             |
| 0.1700         | 0.7231             | 0.1800           | 0.7658             |
| 0.2200         | 0.7612             | 0.2100           | 0.8074             |
| 0.2700         | 0.8088             | 0.2700           | 0.8669             |
| 0.3200         | 0.8456             | 0.3100           | 0.9129             |
| 0.3600         | 0.8917             | 0.3700           | 0.9507             |
| 0.4100         | 0.9191             | 0.4200           | 0.9834             |
| 0.5100         | 0.9758             | 0.5300           | 1.0007             |
| 0.7200         | 1.0046             | 0.7300           | 1.0029             |
| 0.9100         | 1.0006             | 0.9400           | 1.0063             |
| 1.1100         | 1.0012             | 1.1500           | 0.9995             |
| 1.3000         | 1.0032             | 1.3500           | 0.9912             |
| 1.5300         | 1.0015             | 1.5500           | 1.0029             |
| 1.7400         | 1.0045             | 1.7500           | 1.0014             |
| 1.9400         | 1.0034             | 1.9500           | 1.0041             |
| 2.1400         | 1.0028             | 2.1600           | 1.0011             |
| 2.3500         | 1.0011             | 2.3700           | 1.0019             |
| 2.5500         | 1.0013             | 2.5800           | 1.0046             |

Flight 12 Test point 3

Sweep, deg = 34.5 Mach = 0.70 hp, ft = 35300. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 167.9 Rnpu = 1657000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4872                     | 0.1128                      | 0.0532                  | none             |
| Outboard station rake | 0.3902                     | 0.0968                      | 0.0456                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.6017 | 0.0400           | 0.6137 |
| 0.0500         | 0.6280 | 0.0700           | 0.6510 |
| 0.1100         | 0.6906 | 0.1200           | 0.7292 |
| 0.1700         | 0.7581 | 0.1800           | 0.7965 |
| 0.2200         | 0.8079 | 0.2100           | 0.8451 |
| 0.2700         | 0.8510 | 0.2700           | 0.9071 |
| 0.3200         | 0.8955 | 0.3100           | 0.9549 |
| 0.3600         | 0.9371 | 0.3700           | 0.9784 |
| 0.4100         | 0.9637 | 0.4200           | 1.0005 |
| 0.5100         | 0.9931 | 0.5300           | 0.9998 |
| 0.7200         | 1.0047 | 0.7300           | 1.0027 |
| 0.9100         | 0.9981 | 0.9400           | 1.0065 |
| 1.1100         | 1.0021 | 1.1500           | 0.9992 |
| 1.3000         | 1.0004 | 1.3500           | 0.9899 |
| 1.5300         | 1.0005 | 1.5500           | 1.0040 |
| 1.7400         | 1.0013 | 1.7500           | 1.0049 |
| 1.9400         | 1.0027 | 1.9500           | 1.0071 |
| 2.1400         | 0.9991 | 2.1600           | 0.9989 |
| 2.3500         | 0.9996 | 2.3700           | 1.0022 |
| 2.5500         | 0.9985 | 2.5800           | 1.0059 |



Flight 12 Test point 4

Sweep, deg = 30.4 Mach = 0.71 hp, ft = 35000. Angle of attack, deg = 4.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 174.0 R<sub>npu</sub> = 1695000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9610                     | 0.2078                      | 0.1062                  | none             |
| Outboard station rake | 0.7262                     | 0.1851                      | 0.0903                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5034             | 0.0400           | 0.4759             |
| 0.0500         | 0.5331             | 0.0700           | 0.5419             |
| 0.1100         | 0.5888             | 0.1200           | 0.6050             |
| 0.1700         | 0.6435             | 0.1800           | 0.6609             |
| 0.2200         | 0.6670             | 0.2100           | 0.6881             |
| 0.2700         | 0.7102             | 0.2700           | 0.7408             |
| 0.3200         | 0.7420             | 0.3100           | 0.7874             |
| 0.3600         | 0.7798             | 0.3700           | 0.8205             |
| 0.4100         | 0.8079             | 0.4200           | 0.8661             |
| 0.5100         | 0.8715             | 0.5300           | 0.9318             |
| 0.7200         | 0.9839             | 0.7300           | 1.0012             |
| 0.9100         | 0.9969             | 0.9400           | 1.0027             |
| 1.1100         | 0.9997             | 1.1500           | 0.9973             |
| 1.3000         | 1.0009             | 1.3500           | 0.9910             |
| 1.5300         | 1.0014             | 1.5500           | 1.0011             |
| 1.7400         | 1.0015             | 1.7500           | 1.0029             |
| 1.9400         | 1.0002             | 1.9500           | 1.0025             |
| 2.1400         | 1.0020             | 2.1600           | 0.9994             |
| 2.3500         | 0.9969             | 2.3700           | 1.0000             |
| 2.5500         | 1.0004             | 2.5800           | 1.0021             |

Flight 12 Test point 5

Sweep, deg = 30.4 Mach = 0.70 hp, ft = 35500. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 168.0 Rnpu = 1648000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4082                     | 0.0904                      | 0.0457                  | none             |
| Outboard station rake | 0.3029                     | 0.0668                      | 0.0292                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.6129 | 0.0400           | 0.6797 |
| 0.0500         | 0.6608 | 0.0700           | 0.7333 |
| 0.1100         | 0.7361 | 0.1200           | 0.8268 |
| 0.1700         | 0.8073 | 0.1800           | 0.8982 |
| 0.2200         | 0.8568 | 0.2100           | 0.9440 |
| 0.2700         | 0.9097 | 0.2700           | 0.9821 |
| 0.3200         | 0.9520 | 0.3100           | 1.0015 |
| 0.3600         | 0.9821 | 0.3700           | 0.9984 |
| 0.4100         | 0.9895 | 0.4200           | 1.0041 |
| 0.5100         | 0.9998 | 0.5300           | 1.0010 |
| 0.7200         | 1.0061 | 0.7300           | 1.0049 |
| 0.9100         | 0.9988 | 0.9400           | 1.0049 |
| 1.1100         | 0.9986 | 1.1500           | 0.9977 |
| 1.3000         | 1.0026 | 1.3500           | 0.9911 |
| 1.5300         | 0.9993 | 1.5500           | 1.0026 |
| 1.7400         | 1.0033 | 1.7500           | 1.0037 |
| 1.9400         | 1.0034 | 1.9500           | 1.0036 |
| 2.1400         | 1.0008 | 2.1600           | 0.9995 |
| 2.3500         | 0.9981 | 2.3700           | 1.0021 |
| 2.5500         | 0.9997 | 2.5800           | 1.0029 |

Flight 12 Test point 6

Sweep, deg = 30.4 Mach = 0.67 hp, ft = 35500. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 154.0 Rrho = 1564000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4505                     | 0.1071                      | 0.0549                  | none             |
| Outboard station rake | 0.3380                     | 0.0884                      | 0.0408                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5944 | 0.0400           | 0.6125 |
| 0.0500         | 0.6271 | 0.0700           | 0.6668 |
| 0.1100         | 0.6980 | 0.1200           | 0.7535 |
| 0.1700         | 0.7736 | 0.1800           | 0.8211 |
| 0.2200         | 0.8133 | 0.2100           | 0.8707 |
| 0.2700         | 0.8696 | 0.2700           | 0.9323 |
| 0.3200         | 0.9092 | 0.3100           | 0.9734 |
| 0.3600         | 0.9462 | 0.3700           | 0.9938 |
| 0.4100         | 0.9714 | 0.4200           | 1.0033 |
| 0.5100         | 0.9985 | 0.5300           | 1.0004 |
| 0.7200         | 1.0064 | 0.7300           | 1.0014 |
| 0.9100         | 0.9993 | 0.9400           | 1.0062 |
| 1.1100         | 1.0054 | 1.1500           | 0.9955 |
| 1.3000         | 1.0027 | 1.3500           | 0.9885 |
| 1.5300         | 1.0000 | 1.5500           | 1.0019 |
| 1.7400         | 1.0060 | 1.7500           | 1.0042 |
| 1.9400         | 1.0043 | 1.9500           | 1.0065 |
| 2.1400         | 1.0045 | 2.1600           | 0.9969 |
| 2.3500         | 1.0015 | 2.3700           | 0.9975 |
| 2.5500         | 0.9997 | 2.5800           | 1.0039 |

Flight 12 Test point 7

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 35000. Angle of attack, deg = 3.8  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 172.8 Rrho = 1687000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9686                     | 0.2112                      | 0.1038                  | none             |
| Outboard station rake | 0.7231                     | 0.2029                      | 0.0866                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.4046 | 0.0400           | 0.2221 |
| 0.0500         | 0.4777 | 0.0700           | 0.4004 |
| 0.1100         | 0.5681 | 0.1200           | 0.5473 |
| 0.1700         | 0.6357 | 0.1800           | 0.6306 |
| 0.2200         | 0.6654 | 0.2100           | 0.6674 |
| 0.2700         | 0.7045 | 0.2700           | 0.7272 |
| 0.3200         | 0.7427 | 0.3100           | 0.7821 |
| 0.3600         | 0.7817 | 0.3700           | 0.8226 |
| 0.4100         | 0.8135 | 0.4200           | 0.8695 |
| 0.5100         | 0.8827 | 0.5300           | 0.9441 |
| 0.7200         | 0.9877 | 0.7300           | 1.0018 |
| 0.9100         | 0.9974 | 0.9400           | 1.0039 |
| 1.1100         | 1.0004 | 1.1500           | 0.9961 |
| 1.3000         | 1.0005 | 1.3500           | 0.9917 |
| 1.5300         | 1.0001 | 1.5500           | 1.0011 |
| 1.7400         | 1.0019 | 1.7500           | 1.0021 |
| 1.9400         | 1.0006 | 1.9500           | 1.0019 |
| 2.1400         | 1.0001 | 2.1600           | 0.9998 |
| 2.3500         | 1.0003 | 2.3700           | 0.9983 |
| 2.5500         | 0.9988 | 2.5800           | 1.0035 |

Flight 12 Test point 8

Sweep, deg = 25.5 Mach = 0.70 hp, ft = 35500. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 168.2 Rnpu = 1651000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | 0.4167                        | 0.1006                         | 0.0494                     | none                |
| Outboard station rake | 0.2982                        | 0.0717                         | 0.0309                     | none                |

|  | Middle station |        | Outboard station |        |
|--|----------------|--------|------------------|--------|
|  | Y, in.         | U/Umax | Y, in.           | U/Umax |
|  | 0.0300         | 0.5385 | 0.0400           | 0.6196 |
|  | 0.0500         | 0.6057 | 0.0700           | 0.7079 |
|  | 0.1100         | 0.7035 | 0.1200           | 0.8116 |
|  | 0.1700         | 0.7886 | 0.1800           | 0.8935 |
|  | 0.2200         | 0.8420 | 0.2100           | 0.9383 |
|  | 0.2700         | 0.8961 | 0.2700           | 0.9821 |
|  | 0.3200         | 0.9401 | 0.3100           | 0.9976 |
|  | 0.3600         | 0.9768 | 0.3700           | 0.9996 |
|  | 0.4100         | 0.9893 | 0.4200           | 1.0048 |
|  | 0.5100         | 0.9956 | 0.5300           | 1.0013 |
|  | 0.7200         | 1.0041 | 0.7300           | 1.0051 |
|  | 0.9100         | 0.9976 | 0.9400           | 1.0045 |
|  | 1.1100         | 1.0022 | 1.1500           | 0.9962 |
|  | 1.3000         | 1.0020 | 1.3500           | 0.9887 |
|  | 1.5300         | 1.0001 | 1.5500           | 1.0027 |
|  | 1.7400         | 1.0012 | 1.7500           | 1.0024 |
|  | 1.9400         | 1.0030 | 1.9500           | 1.0048 |
|  | 2.1400         | 1.0001 | 2.1600           | 1.0015 |
|  | 2.3500         | 1.0023 | 2.3700           | 1.0010 |
|  | 2.5500         | 1.0025 | 2.5800           | 1.0077 |

Flight 12 Test point 9

Sweep, deg = 25.5 Mach = 0.70 hp, ft = 35400. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 165.2 Rnpu = 1636000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4393                     | 0.1141                      | 0.0559                  | none             |
| Outboard station rake | 0.3284                     | 0.0902                      | 0.0397                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.4975 | 0.0400           | 0.5333 |
| 0.0500         | 0.5770 | 0.0700           | 0.6376 |
| 0.1100         | 0.6784 | 0.1200           | 0.7496 |
| 0.1700         | 0.7615 | 0.1800           | 0.8279 |
| 0.2200         | 0.8068 | 0.2100           | 0.8875 |
| 0.2700         | 0.8622 | 0.2700           | 0.9461 |
| 0.3200         | 0.9080 | 0.3100           | 0.9838 |
| 0.3600         | 0.9501 | 0.3700           | 0.9944 |
| 0.4100         | 0.9749 | 0.4200           | 1.0030 |
| 0.5100         | 0.9981 | 0.5300           | 1.0006 |
| 0.7200         | 1.0049 | 0.7300           | 1.0016 |
| 0.9100         | 1.0012 | 0.9400           | 1.0061 |
| 1.1100         | 1.0032 | 1.1500           | 0.9953 |
| 1.3000         | 1.0029 | 1.3500           | 0.9881 |
| 1.5300         | 1.0026 | 1.5500           | 1.0026 |
| 1.7400         | 1.0053 | 1.7500           | 1.0006 |
| 1.9400         | 1.0026 | 1.9500           | 1.0043 |
| 2.1400         | 1.0043 | 2.1600           | 0.9980 |
| 2.3500         | 1.0013 | 2.3700           | 1.0018 |
| 2.5500         | 0.9988 | 2.5800           | 1.0036 |

Flight 12 Test point 10

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 35000. Angle of attack, deg = 3.3  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 172.1 Rnpu = 1685000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6996                     | 0.2226                      | 0.0920                  | none             |
| Outboard station rake | 0.5501                     | 0.1815                      | 0.0743                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.3160 | 0.0400           | 0.5723 |
| 0.0500         | 0.1736 | 0.0700           | 0.3630 |
| 0.1100         | 0.4629 | 0.1200           | 0.3883 |
| 0.1700         | 0.5856 | 0.1800           | 0.5839 |
| 0.2200         | 0.6513 | 0.2100           | 0.6644 |
| 0.2700         | 0.7045 | 0.2700           | 0.7473 |
| 0.3200         | 0.7506 | 0.3100           | 0.8196 |
| 0.3600         | 0.7987 | 0.3700           | 0.8765 |
| 0.4100         | 0.8335 | 0.4200           | 0.9280 |
| 0.5100         | 0.9058 | 0.5300           | 0.9897 |
| 0.7200         | 1.0090 | 0.7300           | 1.0027 |
| 0.9100         | 1.0073 | 0.9400           | 1.0038 |
| 1.1100         | 1.0094 | 1.1500           | 0.9975 |
| 1.3000         | 1.0084 | 1.3500           | 0.9920 |
| 1.5300         | 1.0102 | 1.5500           | 1.0041 |
| 1.7400         | 1.0103 | 1.7500           | 1.0025 |
| 1.9400         | 1.0117 | 1.9500           | 1.0052 |
| 2.1400         | 1.0086 | 2.1600           | 1.0003 |
| 2.3500         | 1.0104 | 2.3700           | 1.0002 |
| 2.5500         | 1.0088 | 2.5800           | 1.0019 |

Flight 12 Test point 11

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 34700. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 173.6 Rnpu = 1700000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4250                     | 0.1228                      | 0.0486                  | none             |
| Outboard station rake | 0.3166                     | 0.0943                      | 0.0352                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.1215 | 0.0400           | 0.3144 |
| 0.0500         | 0.4447 | 0.0700           | 0.5798 |
| 0.1100         | 0.6498 | 0.1200           | 0.7628 |
| 0.1700         | 0.7684 | 0.1800           | 0.8665 |
| 0.2200         | 0.8313 | 0.2100           | 0.9166 |
| 0.2700         | 0.8909 | 0.2700           | 0.9668 |
| 0.3200         | 0.9361 | 0.3100           | 0.9920 |
| 0.3600         | 0.9725 | 0.3700           | 0.9970 |
| 0.4100         | 0.9851 | 0.4200           | 1.0016 |
| 0.5100         | 0.9956 | 0.5300           | 0.9985 |
| 0.7200         | 1.0041 | 0.7300           | 1.0018 |
| 0.9100         | 1.0012 | 0.9400           | 1.0049 |
| 1.1100         | 1.0019 | 1.1500           | 0.9991 |
| 1.3000         | 1.0018 | 1.3500           | 0.9911 |
| 1.5300         | 1.0018 | 1.5500           | 1.0027 |
| 1.7400         | 1.0036 | 1.7500           | 1.0030 |
| 1.9400         | 1.0019 | 1.9500           | 1.0019 |
| 2.1400         | 1.0016 | 2.1600           | 1.0006 |
| 2.3500         | 1.0011 | 2.3700           | 0.9996 |
| 2.5500         | 1.0003 | 2.5800           | 1.0064 |



Flight 12 Test point 12

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 35400. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 168.1 Rnpu = 1657000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4365                     | 0.1355                      | 0.0550                  | none             |
| Outboard station rake | 0.3358                     | 0.1137                      | 0.0396                  | none             |

|  | Middle station |                    | Outboard station |                    |
|--|----------------|--------------------|------------------|--------------------|
|  | Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
|  | 0.0300         | 0.2093             | 0.0400           | 0.1891             |
|  | 0.0500         | 0.3750             | 0.0700           | 0.4803             |
|  | 0.1100         | 0.6062             | 0.1200           | 0.6962             |
|  | 0.1700         | 0.7310             | 0.1800           | 0.8087             |
|  | 0.2200         | 0.7966             | 0.2100           | 0.8727             |
|  | 0.2700         | 0.8642             | 0.2700           | 0.9385             |
|  | 0.3200         | 0.9072             | 0.3100           | 0.9770             |
|  | 0.3600         | 0.9519             | 0.3700           | 0.9928             |
|  | 0.4100         | 0.9752             | 0.4200           | 1.0000             |
|  | 0.5100         | 0.9977             | 0.5300           | 0.9966             |
|  | 0.7200         | 1.0031             | 0.7300           | 0.9998             |
|  | 0.9100         | 1.0001             | 0.9400           | 1.0063             |
|  | 1.1100         | 1.0020             | 1.1500           | 0.9973             |
|  | 1.3000         | 1.0041             | 1.3500           | 0.9894             |
|  | 1.5300         | 1.0053             | 1.5500           | 1.0028             |
|  | 1.7400         | 1.0048             | 1.7500           | 1.0045             |
|  | 1.9400         | 1.0032             | 1.9500           | 1.0039             |
|  | 2.1400         | 1.0042             | 2.1600           | 1.0002             |
|  | 2.3500         | 1.0001             | 2.3700           | 1.0020             |
|  | 2.5500         | 1.0003             | 2.5800           | 1.0042             |

Flight 12 Test point 13

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 34900. Angle of attack, deg = 2.4  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 196.8 Rnpu = 1819000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 1.0123                     | 0.1626                      | 0.0907                  | none             |
| Outboard station rake | 0.7532                     | 0.1845                      | 0.0800                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5493             | 0.0400           | 0.1512             |
| 0.0500         | 0.6516             | 0.0700           | 0.4626             |
| 0.1100         | 0.7400             | 0.1200           | 0.6239             |
| 0.1700         | 0.7888             | 0.1800           | 0.6952             |
| 0.2200         | 0.8109             | 0.2100           | 0.7319             |
| 0.2700         | 0.8289             | 0.2700           | 0.7916             |
| 0.3200         | 0.8452             | 0.3100           | 0.8236             |
| 0.3600         | 0.8658             | 0.3700           | 0.8575             |
| 0.4100         | 0.8777             | 0.4200           | 0.8909             |
| 0.5100         | 0.9074             | 0.5300           | 0.9389             |
| 0.7200         | 0.9656             | 0.7300           | 0.9944             |
| 0.9100         | 0.9924             | 0.9400           | 1.0067             |
| 1.1100         | 1.0026             | 1.1500           | 0.9983             |
| 1.3000         | 1.0017             | 1.3500           | 0.9928             |
| 1.5300         | 0.9999             | 1.5500           | 1.0013             |
| 1.7400         | 1.0014             | 1.7500           | 1.0009             |
| 1.9400         | 1.0015             | 1.9500           | 1.0042             |
| 2.1400         | 1.0003             | 2.1600           | 0.9974             |
| 2.3500         | 0.9986             | 2.3700           | 1.0004             |
| 2.5500         | 1.0016             | 2.5800           | 1.0036             |

Flight 12 Test point 14

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 34300. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 205.1 Rrho = 1875000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4651                     | 0.1288                      | 0.0537                  | none             |
| Outboard station rake | 0.3779                     | 0.1185                      | 0.0387                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1913             | 0.0400           | 0.0875             |
| 0.0500         | 0.4561             | 0.0700           | 0.4980             |
| 0.1100         | 0.6446             | 0.1200           | 0.6999             |
| 0.1700         | 0.7606             | 0.1800           | 0.8099             |
| 0.2200         | 0.8190             | 0.2100           | 0.8685             |
| 0.2700         | 0.8741             | 0.2700           | 0.9257             |
| 0.3200         | 0.9116             | 0.3100           | 0.9687             |
| 0.3600         | 0.9482             | 0.3700           | 0.9872             |
| 0.4100         | 0.9644             | 0.4200           | 0.9995             |
| 0.5100         | 0.9914             | 0.5300           | 0.9983             |
| 0.7200         | 1.0018             | 0.7300           | 1.0027             |
| 0.9100         | 0.9992             | 0.9400           | 1.0053             |
| 1.1100         | 1.0018             | 1.1500           | 0.9976             |
| 1.3000         | 0.9997             | 1.3500           | 0.9930             |
| 1.5300         | 1.0001             | 1.5500           | 1.0033             |
| 1.7400         | 1.0011             | 1.7500           | 1.0018             |
| 1.9400         | 1.0020             | 1.9500           | 1.0064             |
| 2.1400         | 1.0020             | 2.1600           | 1.0009             |
| 2.3500         | 0.9998             | 2.3700           | 1.0019             |
| 2.5500         | 1.0011             | 2.5800           | 1.0020             |

Flight 12 Test point 15

Sweep, deg = 20.0 Mach = 0.76 hp, ft = 35100. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 198.7 R<sub>npu</sub> = 1825000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.8081                     | 0.1364                      | 0.0734                  | none             |
| Outboard station rake | 0.7200                     | 0.1230                      | 0.0618                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5093             | 0.0400           | 0.5328             |
| 0.0500         | 0.6331             | 0.0700           | 0.6789             |
| 0.1100         | 0.7411             | 0.1200           | 0.7822             |
| 0.1700         | 0.8021             | 0.1800           | 0.8347             |
| 0.2200         | 0.8299             | 0.2100           | 0.8452             |
| 0.2700         | 0.8527             | 0.2700           | 0.8705             |
| 0.3200         | 0.8706             | 0.3100           | 0.8945             |
| 0.3600         | 0.8945             | 0.3700           | 0.9106             |
| 0.4100         | 0.9039             | 0.4200           | 0.9309             |
| 0.5100         | 0.9334             | 0.5300           | 0.9619             |
| 0.7200         | 0.9874             | 0.7300           | 1.0011             |
| 0.9100         | 0.9987             | 0.9400           | 1.0074             |
| 1.1100         | 1.0033             | 1.1500           | 0.9981             |
| 1.3000         | 0.9995             | 1.3500           | 0.9943             |
| 1.5300         | 0.9989             | 1.5500           | 1.0066             |
| 1.7400         | 1.0049             | 1.7500           | 1.0065             |
| 1.9400         | 1.0035             | 1.9500           | 1.0069             |
| 2.1400         | 1.0029             | 2.1600           | 1.0065             |
| 2.3500         | 0.9988             | 2.3700           | 1.0037             |
| 2.5500         | 1.0022             | 2.5800           | 1.0070             |

Flight 12 Test point 16

Sweep, deg = 25.0 Mach = 0.76 hp, ft = 34900. Angle of attack, deg = 2.6  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 199.3 Rnpu = 1831000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.8122                     | 0.1547                      | 0.0815                  | none             |
| Outboard station rake | 0.7109                     | 0.1134                      | 0.0574                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5562 | 0.0400           | 0.6322 |
| 0.0500         | 0.6260 | 0.0700           | 0.7171 |
| 0.1100         | 0.7113 | 0.1200           | 0.7932 |
| 0.1700         | 0.7737 | 0.1800           | 0.8391 |
| 0.2200         | 0.7983 | 0.2100           | 0.8563 |
| 0.2700         | 0.8273 | 0.2700           | 0.8817 |
| 0.3200         | 0.8460 | 0.3100           | 0.9069 |
| 0.3600         | 0.8669 | 0.3700           | 0.9194 |
| 0.4100         | 0.8876 | 0.4200           | 0.9386 |
| 0.5100         | 0.9380 | 0.5300           | 0.9655 |
| 0.7200         | 1.0076 | 0.7300           | 1.0015 |
| 0.9100         | 1.0068 | 0.9400           | 1.0055 |
| 1.1100         | 1.0079 | 1.1500           | 0.9988 |
| 1.3000         | 1.0051 | 1.3500           | 0.9941 |
| 1.5300         | 1.0047 | 1.5500           | 1.0033 |
| 1.7400         | 1.0085 | 1.7500           | 1.0043 |
| 1.9400         | 1.0071 | 1.9500           | 1.0100 |
| 2.1400         | 1.0044 | 2.1600           | 1.0042 |
| 2.3500         | 1.0039 | 2.3700           | 1.0055 |
| 2.5500         | 1.0060 | 2.5800           | 1.0073 |

Flight 12 Test point 17

Sweep, deg = 25.3 Mach = 0.76 hp, ft = 34700. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 205.1 R<sub>npu</sub> = 1867000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4275                     | 0.1123                      | 0.0524                  | none             |
| Outboard station rake | 0.3374                     | 0.0966                      | 0.0408                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4617             | 0.0400           | 0.4804             |
| 0.0500         | 0.5541             | 0.0700           | 0.6081             |
| 0.1100         | 0.6752             | 0.1200           | 0.7365             |
| 0.1700         | 0.7683             | 0.1800           | 0.8216             |
| 0.2200         | 0.8229             | 0.2100           | 0.8792             |
| 0.2700         | 0.8829             | 0.2700           | 0.9415             |
| 0.3200         | 0.9291             | 0.3100           | 0.9774             |
| 0.3600         | 0.9665             | 0.3700           | 0.9917             |
| 0.4100         | 0.9844             | 0.4200           | 1.0013             |
| 0.5100         | 0.9963             | 0.5300           | 0.9989             |
| 0.7200         | 1.0040             | 0.7300           | 1.0022             |
| 0.9100         | 0.9978             | 0.9400           | 1.0056             |
| 1.1100         | 1.0014             | 1.1500           | 0.9980             |
| 1.3000         | 1.0008             | 1.3500           | 0.9923             |
| 1.5300         | 1.0014             | 1.5500           | 1.0017             |
| 1.7400         | 1.0062             | 1.7500           | 0.9997             |
| 1.9400         | 1.0034             | 1.9500           | 1.0034             |
| 2.1400         | 1.0023             | 2.1600           | 1.0007             |
| 2.3500         | 0.9994             | 2.3700           | 1.0015             |
| 2.5500         | 1.0027             | 2.5800           | 1.0032             |

Flight 12 Test point 18

Sweep, deg = 24.9 Mach = 0.76 hp, ft = 35000. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 199.0 Rnpu = 1829000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4584                     | 0.1260                      | 0.0581                  | none             |
| Outboard station rake | 0.4013                     | 0.1060                      | 0.0457                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4120             | 0.0400           | 0.4611             |
| 0.0500         | 0.5215             | 0.0700           | 0.5888             |
| 0.1100         | 0.6463             | 0.1200           | 0.7191             |
| 0.1700         | 0.7428             | 0.1800           | 0.8051             |
| 0.2200         | 0.7951             | 0.2100           | 0.8575             |
| 0.2700         | 0.8568             | 0.2700           | 0.9134             |
| 0.3200         | 0.8980             | 0.3100           | 0.9516             |
| 0.3600         | 0.9422             | 0.3700           | 0.9778             |
| 0.4100         | 0.9729             | 0.4200           | 0.9935             |
| 0.5100         | 0.9979             | 0.5300           | 0.9995             |
| 0.7200         | 1.0058             | 0.7300           | 0.9997             |
| 0.9100         | 1.0004             | 0.9400           | 1.0050             |
| 1.1100         | 1.0019             | 1.1500           | 0.9963             |
| 1.3000         | 1.0043             | 1.3500           | 0.9934             |
| 1.5300         | 1.0017             | 1.5500           | 1.0012             |
| 1.7400         | 1.0024             | 1.7500           | 1.0036             |
| 1.9400         | 1.0054             | 1.9500           | 1.0038             |
| 2.1400         | 1.0027             | 2.1600           | 1.0015             |
| 2.3500         | 1.0017             | 2.3700           | 0.9991             |
| 2.5500         | 1.0028             | 2.5800           | 1.0034             |

Flight 12 Test point 19

Sweep, deg = 30.0 Mach = 0.76 hp, ft = 34900. Angle of attack, deg = 3.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 198.9 R<sub>npu</sub> = 1829000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7158                     | 0.1803                      | 0.0902                  | none             |
| Outboard station rake | 0.4579                     | 0.1332                      | 0.0598                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5079             | 0.0400           | 0.4835             |
| 0.0500         | 0.5493             | 0.0700           | 0.5574             |
| 0.1100         | 0.6073             | 0.1200           | 0.6518             |
| 0.1700         | 0.6574             | 0.1800           | 0.7186             |
| 0.2200         | 0.6938             | 0.2100           | 0.7701             |
| 0.2700         | 0.7393             | 0.2700           | 0.8353             |
| 0.3200         | 0.7816             | 0.3100           | 0.8919             |
| 0.3600         | 0.8233             | 0.3700           | 0.9333             |
| 0.4100         | 0.8575             | 0.4200           | 0.9724             |
| 0.5100         | 0.9264             | 0.5300           | 1.0000             |
| 0.7200         | 1.0013             | 0.7300           | 1.0047             |
| 0.9100         | 0.9987             | 0.9400           | 1.0086             |
| 1.1100         | 0.9997             | 1.1500           | 0.9988             |
| 1.3000         | 1.0017             | 1.3500           | 0.9927             |
| 1.5300         | 0.9985             | 1.5500           | 1.0029             |
| 1.7400         | 1.0005             | 1.7500           | 1.0052             |
| 1.9400         | 1.0003             | 1.9500           | 1.0053             |
| 2.1400         | 1.0018             | 2.1600           | 1.0036             |
| 2.3500         | 1.0001             | 2.3700           | 1.0010             |
| 2.5500         | 0.9974             | 2.5800           | 1.0049             |



Flight 12 Test point 20

Sweep, deg = 30.0 Mach = 0.76 hp, ft = 34800. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 205.0 R<sub>npu</sub> = 1863000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5648                     | 0.1489                      | 0.0736                  | none             |
| Outboard station rake | 0.3976                     | 0.1086                      | 0.0488                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5330             | 0.0400           | 0.5502             |
| 0.0500         | 0.5645             | 0.0700           | 0.6010             |
| 0.1100         | 0.6347             | 0.1200           | 0.6948             |
| 0.1700         | 0.7010             | 0.1800           | 0.7663             |
| 0.2200         | 0.7462             | 0.2100           | 0.8226             |
| 0.2700         | 0.7940             | 0.2700           | 0.8975             |
| 0.3200         | 0.8306             | 0.3100           | 0.9481             |
| 0.3600         | 0.8731             | 0.3700           | 0.9847             |
| 0.4100         | 0.9082             | 0.4200           | 1.0014             |
| 0.5100         | 0.9698             | 0.5300           | 1.0021             |
| 0.7200         | 1.0060             | 0.7300           | 1.0049             |
| 0.9100         | 1.0007             | 0.9400           | 1.0042             |
| 1.1100         | 1.0037             | 1.1500           | 0.9979             |
| 1.3000         | 1.0041             | 1.3500           | 0.9906             |
| 1.5300         | 1.0016             | 1.5500           | 1.0047             |
| 1.7400         | 1.0040             | 1.7500           | 1.0030             |
| 1.9400         | 1.0035             | 1.9500           | 1.0032             |
| 2.1400         | 1.0041             | 2.1600           | 1.0026             |
| 2.3500         | 1.0001             | 2.3700           | 0.9990             |
| 2.5500         | 1.0024             | 2.5800           | 1.0018             |

Flight 12 Test point 21

Sweep, deg = 30.0 Mach = 0.76 hp, ft = 34500. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 207.7 Rrho = 1883000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4358                     | 0.1163                      | 0.0564                  | none             |
| Outboard station rake | 0.3355                     | 0.0934                      | 0.0412                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5435             | 0.0400           | 0.5738             |
| 0.0500         | 0.5898             | 0.0700           | 0.6389             |
| 0.1100         | 0.6679             | 0.1200           | 0.7348             |
| 0.1700         | 0.7517             | 0.1800           | 0.8125             |
| 0.2200         | 0.8003             | 0.2100           | 0.8740             |
| 0.2700         | 0.8565             | 0.2700           | 0.9356             |
| 0.3200         | 0.9025             | 0.3100           | 0.9761             |
| 0.3600         | 0.9487             | 0.3700           | 0.9941             |
| 0.4100         | 0.9749             | 0.4200           | 1.0011             |
| 0.5100         | 0.9994             | 0.5300           | 1.0000             |
| 0.7200         | 1.0048             | 0.7300           | 1.0017             |
| 0.9100         | 1.0024             | 0.9400           | 1.0046             |
| 1.1100         | 1.0034             | 1.1500           | 0.9967             |
| 1.3000         | 1.0035             | 1.3500           | 0.9923             |
| 1.5300         | 1.0020             | 1.5500           | 1.0028             |
| 1.7400         | 1.0019             | 1.7500           | 1.0006             |
| 1.9400         | 1.0013             | 1.9500           | 1.0028             |
| 2.1400         | 1.0020             | 2.1600           | 1.0006             |
| 2.3500         | 1.0016             | 2.3700           | 1.0010             |
| 2.5500         | 1.0028             | 2.5800           | 1.0014             |

Flight 12 Test point 22

Sweep, deg = 35.2 Mach = 0.75 hp, ft = 34900. Angle of attack, deg = 3.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 197.2 Rnpu = 1821000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9328                     | 0.2306                      | 0.1175                  | none             |
| Outboard station rake | 0.7391                     | 0.1955                      | 0.0954                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5075             | 0.0400           | 0.5187             |
| 0.0500         | 0.5292             | 0.0700           | 0.5456             |
| 0.1100         | 0.5833             | 0.1200           | 0.6056             |
| 0.1700         | 0.6269             | 0.1800           | 0.6492             |
| 0.2200         | 0.6604             | 0.2100           | 0.6800             |
| 0.2700         | 0.6941             | 0.2700           | 0.7288             |
| 0.3200         | 0.7176             | 0.3100           | 0.7691             |
| 0.3600         | 0.7596             | 0.3700           | 0.8073             |
| 0.4100         | 0.7839             | 0.4200           | 0.8457             |
| 0.5100         | 0.8401             | 0.5300           | 0.9106             |
| 0.7200         | 0.9508             | 0.7300           | 0.9965             |
| 0.9100         | 0.9952             | 0.9400           | 1.0049             |
| 1.1100         | 1.0007             | 1.1500           | 0.9978             |
| 1.3000         | 1.0021             | 1.3500           | 0.9920             |
| 1.5300         | 0.9978             | 1.5500           | 1.0004             |
| 1.7400         | 1.0023             | 1.7500           | 1.0021             |
| 1.9400         | 1.0003             | 1.9500           | 1.0042             |
| 2.1400         | 1.0013             | 2.1600           | 1.0003             |
| 2.3500         | 0.9983             | 2.3700           | 0.9995             |
| 2.5500         | 1.0020             | 2.5800           | 1.0023             |

Flight 12 Test point 23

Sweep, deg = 35.2 Mach = 0.76 hp, ft = 34600. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 205.3 R<sub>npu</sub> = 1869000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7275                     | 0.1798                      | 0.0921                  | none             |
| Outboard station rake | 0.4910                     | 0.1342                      | 0.0635                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5431             | 0.0400           | 0.5567             |
| 0.0500         | 0.5573             | 0.0700           | 0.5947             |
| 0.1100         | 0.6176             | 0.1200           | 0.6648             |
| 0.1700         | 0.6675             | 0.1800           | 0.7213             |
| 0.2200         | 0.7035             | 0.2100           | 0.7669             |
| 0.2700         | 0.7447             | 0.2700           | 0.8204             |
| 0.3200         | 0.7796             | 0.3100           | 0.8761             |
| 0.3600         | 0.8244             | 0.3700           | 0.9092             |
| 0.4100         | 0.8536             | 0.4200           | 0.9488             |
| 0.5100         | 0.9135             | 0.5300           | 0.9918             |
| 0.7200         | 0.9974             | 0.7300           | 1.0035             |
| 0.9100         | 0.9990             | 0.9400           | 1.0036             |
| 1.1100         | 1.0021             | 1.1500           | 0.9971             |
| 1.3000         | 1.0006             | 1.3500           | 0.9929             |
| 1.5300         | 0.9963             | 1.5500           | 1.0023             |
| 1.7400         | 1.0023             | 1.7500           | 1.0004             |
| 1.9400         | 1.0007             | 1.9500           | 1.0038             |
| 2.1400         | 1.0024             | 2.1600           | 1.0005             |
| 2.3500         | 0.9982             | 2.3700           | 1.0024             |
| 2.5500         | 1.0010             | 2.5800           | 1.0018             |

Flight 12 Test point 24

Sweep, deg = 35.2 Mach = 0.75 hp, ft = 34700. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 199.6 Rnpu = 1837000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7139                     | 0.1690                      | 0.0874                  | none             |
| Outboard station rake | 0.4429                     | 0.1174                      | 0.0550                  | none             |

|  | Middle station |                    | Outboard station |                    |
|--|----------------|--------------------|------------------|--------------------|
|  | Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
|  | 0.0300         | 0.5471             | 0.0400           | 0.5709             |
|  | 0.0500         | 0.5727             | 0.0700           | 0.6120             |
|  | 0.1100         | 0.6279             | 0.1200           | 0.6899             |
|  | 0.1700         | 0.6831             | 0.1800           | 0.7437             |
|  | 0.2200         | 0.7202             | 0.2100           | 0.7930             |
|  | 0.2700         | 0.7611             | 0.2700           | 0.8600             |
|  | 0.3200         | 0.7969             | 0.3100           | 0.9115             |
|  | 0.3600         | 0.8322             | 0.3700           | 0.9542             |
|  | 0.4100         | 0.8665             | 0.4200           | 0.9864             |
|  | 0.5100         | 0.9296             | 0.5300           | 1.0029             |
|  | 0.7200         | 1.0018             | 0.7300           | 1.0013             |
|  | 0.9100         | 0.9971             | 0.9400           | 1.0046             |
|  | 1.1100         | 1.0017             | 1.1500           | 0.9978             |
|  | 1.3000         | 1.0012             | 1.3500           | 0.9926             |
|  | 1.5300         | 0.9979             | 1.5500           | 1.0026             |
|  | 1.7400         | 0.9993             | 1.7500           | 1.0037             |
|  | 1.9400         | 1.0011             | 1.9500           | 1.0043             |
|  | 2.1400         | 1.0000             | 2.1600           | 0.9984             |
|  | 2.3500         | 1.0000             | 2.3700           | 1.0006             |
|  | 2.5500         | 0.9999             | 2.5800           | 1.0050             |

Flight 12 Test point 25

Sweep, deg = 35.2 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 2.8  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 225.5 Rrho = 1961000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9160                     | 0.2735                      | 0.1263                  | none             |
| Outboard station rake | 0.7879                     | 0.2350                      | 0.1063                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.4507 | 0.0400           | 0.4568 |
| 0.0500         | 0.4547 | 0.0700           | 0.4825 |
| 0.1100         | 0.5033 | 0.1200           | 0.5363 |
| 0.1700         | 0.5471 | 0.1800           | 0.5773 |
| 0.2200         | 0.5762 | 0.2100           | 0.6004 |
| 0.2700         | 0.6161 | 0.2700           | 0.6573 |
| 0.3200         | 0.6491 | 0.3100           | 0.7007 |
| 0.3600         | 0.6892 | 0.3700           | 0.7445 |
| 0.4100         | 0.7262 | 0.4200           | 0.7919 |
| 0.5100         | 0.8008 | 0.5300           | 0.8801 |
| 0.7200         | 0.9484 | 0.7300           | 0.9972 |
| 0.9100         | 0.9986 | 0.9400           | 1.0066 |
| 1.1100         | 1.0010 | 1.1500           | 0.9995 |
| 1.3000         | 1.0016 | 1.3500           | 0.9935 |
| 1.5300         | 0.9998 | 1.5500           | 1.0038 |
| 1.7400         | 1.0012 | 1.7500           | 1.0001 |
| 1.9400         | 1.0019 | 1.9500           | 1.0024 |
| 2.1400         | 1.0001 | 2.1600           | 0.9975 |
| 2.3500         | 0.9986 | 2.3700           | 0.9954 |
| 2.5500         | 0.9973 | 2.5800           | 1.0011 |

Flight 12 Test point 26

Sweep, deg = 35.2 Mach = 0.80 hp, ft = 34700. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 228.1 R<sub>npu</sub> = 1981000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9511                     | 0.2090                      | 0.1022                  | none             |
| Outboard station rake | 0.5865                     | 0.1667                      | 0.0771                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5009             | 0.0400           | 0.5095             |
| 0.0500         | 0.5217             | 0.0700           | 0.5429             |
| 0.1100         | 0.5676             | 0.1200           | 0.6140             |
| 0.1700         | 0.6249             | 0.1800           | 0.6675             |
| 0.2200         | 0.6599             | 0.2100           | 0.7093             |
| 0.2700         | 0.7004             | 0.2700           | 0.7677             |
| 0.3200         | 0.7438             | 0.3100           | 0.8167             |
| 0.3600         | 0.7843             | 0.3700           | 0.8593             |
| 0.4100         | 0.8177             | 0.4200           | 0.9035             |
| 0.5100         | 0.8856             | 0.5300           | 0.9697             |
| 0.7200         | 0.9911             | 0.7300           | 1.0009             |
| 0.9100         | 0.9986             | 0.9400           | 1.0047             |
| 1.1100         | 1.0025             | 1.1500           | 0.9966             |
| 1.3000         | 0.9996             | 1.3500           | 0.9919             |
| 1.5300         | 0.9987             | 1.5500           | 1.0012             |
| 1.7400         | 1.0009             | 1.7500           | 1.0009             |
| 1.9400         | 1.0020             | 1.9500           | 1.0026             |
| 2.1400         | 0.9984             | 2.1600           | 1.0000             |
| 2.3500         | 0.9992             | 2.3700           | 0.9982             |
| 2.5500         | 1.0001             | 2.5800           | 1.0032             |

Flight 12 Test point 27

Sweep, deg = 35.2 Mach = 0.81 hp, ft = 34700. Angle of attack, deg = 3.2  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 228.9 R<sub>npu</sub> = 1984000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9254                     | 0.2915                      | 0.1318                  | none             |
| Outboard station rake | 0.8677                     | 0.2705                      | 0.1169                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4320             | 0.0400           | 0.4156             |
| 0.0500         | 0.4437             | 0.0700           | 0.4351             |
| 0.1100         | 0.4836             | 0.1200           | 0.4836             |
| 0.1700         | 0.5250             | 0.1800           | 0.5204             |
| 0.2200         | 0.5523             | 0.2100           | 0.5466             |
| 0.2700         | 0.5963             | 0.2700           | 0.5953             |
| 0.3200         | 0.6222             | 0.3100           | 0.6480             |
| 0.3600         | 0.6677             | 0.3700           | 0.6871             |
| 0.4100         | 0.6996             | 0.4200           | 0.7402             |
| 0.5100         | 0.7760             | 0.5300           | 0.8365             |
| 0.7200         | 0.9363             | 0.7300           | 0.9856             |
| 0.9100         | 0.9956             | 0.9400           | 1.0067             |
| 1.1100         | 1.0011             | 1.1500           | 0.9992             |
| 1.3000         | 1.0012             | 1.3500           | 0.9976             |
| 1.5300         | 0.9985             | 1.5500           | 1.0027             |
| 1.7400         | 1.0019             | 1.7500           | 1.0026             |
| 1.9400         | 1.0019             | 1.9500           | 1.0005             |
| 2.1400         | 1.0016             | 2.1600           | 0.9968             |
| 2.3500         | 0.9967             | 2.3700           | 0.9957             |
| 2.5500         | 1.0015             | 2.5800           | 0.9982             |



Flight 12 Test point 28

Sweep, deg = 30.0 Mach = 0.80 hp, ft = 34900. Angle of attack, deg = 2.3  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 224.5 Rnpu = 1957000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6897                     | 0.2466                      | 0.0909                  | none             |
| Outboard station rake | 0.4824                     | 0.1910                      | 0.0651                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2778             | 0.0400           | 0.3024             |
| 0.0500         | 0.3024             | 0.0700           | 0.3161             |
| 0.1100         | 0.3748             | 0.1200           | 0.4435             |
| 0.1700         | 0.4492             | 0.1800           | 0.5474             |
| 0.2200         | 0.4951             | 0.2100           | 0.6429             |
| 0.2700         | 0.5733             | 0.2700           | 0.7594             |
| 0.3200         | 0.6551             | 0.3100           | 0.8436             |
| 0.3600         | 0.7398             | 0.3700           | 0.9092             |
| 0.4100         | 0.8239             | 0.4200           | 0.9515             |
| 0.5100         | 0.9579             | 0.5300           | 0.9921             |
| 0.7200         | 1.0061             | 0.7300           | 1.0075             |
| 0.9100         | 1.0042             | 0.9400           | 1.0082             |
| 1.1100         | 1.0051             | 1.1500           | 1.0031             |
| 1.3000         | 1.0056             | 1.3500           | 0.9997             |
| 1.5300         | 1.0027             | 1.5500           | 1.0035             |
| 1.7400         | 1.0000             | 1.7500           | 0.9990             |
| 1.9400         | 0.9947             | 1.9500           | 1.0002             |
| 2.1400         | 0.9911             | 2.1600           | 0.9955             |
| 2.3500         | 0.9922             | 2.3700           | 0.9944             |
| 2.5500         | 0.9983             | 2.5800           | 0.9968             |

Flight 12 Test point 29

Sweep, deg = 30.0 Mach = 0.81 hp, ft = 34500. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 232.6 Rnpu = 2009000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.8348                     | 0.2472                      | 0.1059                  | none             |
| Outboard station rake | 0.5415                     | 0.2076                      | 0.0799                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3907             | 0.0400           | 0.2922             |
| 0.0500         | 0.3971             | 0.0700           | 0.3692             |
| 0.1100         | 0.4564             | 0.1200           | 0.4688             |
| 0.1700         | 0.5170             | 0.1800           | 0.5362             |
| 0.2200         | 0.5614             | 0.2100           | 0.5855             |
| 0.2700         | 0.6199             | 0.2700           | 0.6698             |
| 0.3200         | 0.6675             | 0.3100           | 0.7516             |
| 0.3600         | 0.7250             | 0.3700           | 0.8290             |
| 0.4100         | 0.7745             | 0.4200           | 0.9016             |
| 0.5100         | 0.8795             | 0.5300           | 0.9913             |
| 0.7200         | 1.0005             | 0.7300           | 1.0052             |
| 0.9100         | 0.9997             | 0.9400           | 1.0077             |
| 1.1100         | 1.0008             | 1.1500           | 0.9973             |
| 1.3000         | 1.0004             | 1.3500           | 0.9961             |
| 1.5300         | 0.9992             | 1.5500           | 0.9999             |
| 1.7400         | 1.0022             | 1.7500           | 0.9999             |
| 1.9400         | 0.9997             | 1.9500           | 1.0009             |
| 2.1400         | 1.0002             | 2.1600           | 0.9970             |
| 2.3500         | 0.9989             | 2.3700           | 0.9978             |
| 2.5500         | 0.9985             | 2.5800           | 0.9980             |

Flight 12 Test point 30

Sweep, deg = 30.0 Mach = 0.80 hp, ft = 34800. Angle of attack, deg = 3.7  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 227.8 R<sub>npu</sub> = 1977000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5105                     | 0.1946                      | 0.0701                  | none             |
| Outboard station rake | 0.4458                     | 0.1790                      | 0.0550                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3346             | 0.0400           | 0.2903             |
| 0.0500         | 0.3305             | 0.0700           | 0.3102             |
| 0.1100         | 0.4087             | 0.1200           | 0.4695             |
| 0.1700         | 0.5195             | 0.1800           | 0.5949             |
| 0.2200         | 0.6038             | 0.2100           | 0.7065             |
| 0.2700         | 0.7145             | 0.2700           | 0.8137             |
| 0.3200         | 0.8134             | 0.3100           | 0.8918             |
| 0.3600         | 0.8943             | 0.3700           | 0.9510             |
| 0.4100         | 0.9519             | 0.4200           | 0.9841             |
| 0.5100         | 0.9998             | 0.5300           | 1.0057             |
| 0.7200         | 1.0094             | 0.7300           | 1.0085             |
| 0.9100         | 1.0058             | 0.9400           | 1.0089             |
| 1.1100         | 1.0076             | 1.1500           | 1.0033             |
| 1.3000         | 1.0062             | 1.3500           | 0.9994             |
| 1.5300         | 1.0017             | 1.5500           | 1.0014             |
| 1.7400         | 0.9999             | 1.7500           | 1.0009             |
| 1.9400         | 0.9931             | 1.9500           | 0.9988             |
| 2.1400         | 0.9908             | 2.1600           | 0.9964             |
| 2.3500         | 0.9893             | 2.3700           | 0.9962             |
| 2.5500         | 0.9963             | 2.5800           | 0.9964             |

Flight 12 Test point 31

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 2.3  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 224.3 Rnpu = 1955000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7978                     | 0.2740                      | 0.0862                  | none             |
| Outboard station rake | 0.5516                     | 0.2326                      | 0.0665                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1712             | 0.0400           | 0.3897             |
| 0.0500         | 0.1943             | 0.0700           | 0.3687             |
| 0.1100         | 0.2779             | 0.1200           | 0.2172             |
| 0.1700         | 0.4313             | 0.1800           | 0.4011             |
| 0.2200         | 0.5239             | 0.2100           | 0.5325             |
| 0.2700         | 0.6239             | 0.2700           | 0.6740             |
| 0.3200         | 0.7086             | 0.3100           | 0.7827             |
| 0.3600         | 0.7894             | 0.3700           | 0.8729             |
| 0.4100         | 0.8511             | 0.4200           | 0.9336             |
| 0.5100         | 0.9222             | 0.5300           | 0.9900             |
| 0.7200         | 0.9816             | 0.7300           | 1.0047             |
| 0.9100         | 1.0000             | 0.9400           | 1.0068             |
| 1.1100         | 1.0081             | 1.1500           | 1.0022             |
| 1.3000         | 1.0089             | 1.3500           | 0.9995             |
| 1.5300         | 1.0060             | 1.5500           | 1.0037             |
| 1.7400         | 1.0047             | 1.7500           | 1.0018             |
| 1.9400         | 1.0023             | 1.9500           | 1.0006             |
| 2.1400         | 0.9991             | 2.1600           | 0.9984             |
| 2.3500         | 0.9939             | 2.3700           | 0.9956             |
| 2.5500         | 0.9955             | 2.5800           | 0.9967             |

Flight 12 Test point 32

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 34900. Angle of attack, deg = 3.4  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 225.1 Rrho = 1960000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9887                     | 0.3892                      | 0.1211                  | none             |
| Outboard station rake | 0.7147                     | 0.2703                      | 0.0732                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.2162 | 0.0400           | 0.3743 |
| 0.0500         | 0.1858 | 0.0700           | 0.3708 |
| 0.1100         | 0.2480 | 0.1200           | 0.1249 |
| 0.1700         | 0.2797 | 0.1800           | 0.3255 |
| 0.2200         | 0.3035 | 0.2100           | 0.4520 |
| 0.2700         | 0.3821 | 0.2700           | 0.5961 |
| 0.3200         | 0.4545 | 0.3100           | 0.7101 |
| 0.3600         | 0.5391 | 0.3700           | 0.8070 |
| 0.4100         | 0.6118 | 0.4200           | 0.8818 |
| 0.5100         | 0.7557 | 0.5300           | 0.9659 |
| 0.7200         | 0.9329 | 0.7300           | 1.0025 |
| 0.9100         | 0.9820 | 0.9400           | 1.0070 |
| 1.1100         | 1.0003 | 1.1500           | 1.0023 |
| 1.3000         | 1.0040 | 1.3500           | 0.9996 |
| 1.5300         | 1.0057 | 1.5500           | 1.0025 |
| 1.7400         | 1.0051 | 1.7500           | 1.0005 |
| 1.9400         | 1.0041 | 1.9500           | 0.9996 |
| 2.1400         | 1.0006 | 2.1600           | 0.9958 |
| 2.3500         | 0.9991 | 2.3700           | 0.9947 |
| 2.5500         | 0.9991 | 2.5800           | 0.9955 |

Flight 12 Test point 33

Sweep, deg = 20.0 Mach = 0.81 hp, ft = 34500. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 233.1 Rnpu = 2012000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | 0.5249                        | 0.2272                         | 0.0630                     | none                |
| Outboard station rake | 0.4592                        | 0.2098                         | 0.0598                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.4306 | 0.0400           | 0.4142 |
| 0.0500         | 0.4085 | 0.0700           | 0.3977 |
| 0.1100         | 0.1042 | 0.1200           | 0.1881 |
| 0.1700         | 0.3875 | 0.1800           | 0.4257 |
| 0.2200         | 0.5405 | 0.2100           | 0.5788 |
| 0.2700         | 0.6801 | 0.2700           | 0.7296 |
| 0.3200         | 0.7951 | 0.3100           | 0.8381 |
| 0.3600         | 0.8817 | 0.3700           | 0.9156 |
| 0.4100         | 0.9409 | 0.4200           | 0.9642 |
| 0.5100         | 0.9929 | 0.5300           | 1.0002 |
| 0.7200         | 1.0045 | 0.7300           | 1.0072 |
| 0.9100         | 1.0036 | 0.9400           | 1.0077 |
| 1.1100         | 1.0048 | 1.1500           | 1.0036 |
| 1.3000         | 1.0037 | 1.3500           | 1.0001 |
| 1.5300         | 1.0020 | 1.5500           | 1.0052 |
| 1.7400         | 1.0014 | 1.7500           | 1.0039 |
| 1.9400         | 1.0003 | 1.9500           | 1.0051 |
| 2.1400         | 0.9957 | 2.1600           | 1.0017 |
| 2.3500         | 0.9949 | 2.3700           | 1.0004 |
| 2.5500         | 0.9964 | 2.5800           | 1.0007 |

Flight 12 Test point 34

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 34900. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 225.3 Rnpu = 1964000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4346                     | 0.1983                      | 0.0594                  | none             |
| Outboard station rake | 0.4422                     | 0.1917                      | 0.0525                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3538             | 0.0400           | 0.2935             |
| 0.0500         | 0.2552             | 0.0700           | 0.2147             |
| 0.1100         | 0.2754             | 0.1200           | 0.3516             |
| 0.1700         | 0.5072             | 0.1800           | 0.5216             |
| 0.2200         | 0.6308             | 0.2100           | 0.6614             |
| 0.2700         | 0.7530             | 0.2700           | 0.8016             |
| 0.3200         | 0.8520             | 0.3100           | 0.8987             |
| 0.3600         | 0.9253             | 0.3700           | 0.9610             |
| 0.4100         | 0.9763             | 0.4200           | 0.9886             |
| 0.5100         | 1.0074             | 0.5300           | 1.0029             |
| 0.7200         | 1.0102             | 0.7300           | 1.0057             |
| 0.9100         | 1.0081             | 0.9400           | 1.0068             |
| 1.1100         | 1.0081             | 1.1500           | 1.0025             |
| 1.3000         | 1.0073             | 1.3500           | 0.9986             |
| 1.5300         | 1.0063             | 1.5500           | 1.0034             |
| 1.7400         | 1.0047             | 1.7500           | 1.0012             |
| 1.9400         | 0.9974             | 1.9500           | 1.0002             |
| 2.1400         | 0.9928             | 2.1600           | 0.9957             |
| 2.3500         | 0.9898             | 2.3700           | 0.9967             |
| 2.5500         | 0.9920             | 2.5800           | 0.9978             |

Flight 12 Test point 35

Sweep, deg = 21.7 Mach = 0.77 hp, ft = 24300. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 339.0 Rnpu = 2813000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4811                     | 0.1585                      | 0.0608                  | none             |
| Outboard station rake | 0.4003                     | 0.1341                      | 0.0450                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2197             | 0.0400           | 0.1595             |
| 0.0500         | 0.3162             | 0.0700           | 0.4000             |
| 0.1100         | 0.5370             | 0.1200           | 0.6251             |
| 0.1700         | 0.6649             | 0.1800           | 0.7452             |
| 0.2200         | 0.7417             | 0.2100           | 0.8311             |
| 0.2700         | 0.8175             | 0.2700           | 0.9086             |
| 0.3200         | 0.8828             | 0.3100           | 0.9510             |
| 0.3600         | 0.9355             | 0.3700           | 0.9756             |
| 0.4100         | 0.9639             | 0.4200           | 0.9907             |
| 0.5100         | 0.9911             | 0.5300           | 0.9999             |
| 0.7200         | 1.0024             | 0.7300           | 1.0037             |
| 0.9100         | 1.0029             | 0.9400           | 1.0051             |
| 1.1100         | 1.0038             | 1.1500           | 1.0013             |
| 1.3000         | 1.0030             | 1.3500           | 0.9976             |
| 1.5300         | 1.0014             | 1.5500           | 1.0034             |
| 1.7400         | 1.0017             | 1.7500           | 1.0011             |
| 1.9400         | 0.9994             | 1.9500           | 1.0010             |
| 2.1400         | 0.9971             | 2.1600           | 0.9997             |
| 2.3500         | 0.9993             | 2.3700           | 1.0003             |
| 2.5500         | 0.9979             | 2.5800           | 0.9975             |



Flight 12 Test point 36

Sweep, deg = 25.6 Mach = 0.80 hp, ft = 34800. Angle of attack, deg = 3.3  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 226.5 Rrho = 1970000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6657                     | 0.2578                      | 0.0713                  | none             |
| Outboard station rake | 0.4633                     | 0.2277                      | 0.0551                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.1631 | 0.0400           | 0.0899 |
| 0.0500         | 0.1567 | 0.0700           | 0.1493 |
| 0.1100         | 0.2787 | 0.1200           | 0.3445 |
| 0.1700         | 0.4057 | 0.1800           | 0.4618 |
| 0.2200         | 0.5043 | 0.2100           | 0.5708 |
| 0.2700         | 0.6177 | 0.2700           | 0.7109 |
| 0.3200         | 0.7218 | 0.3100           | 0.8165 |
| 0.3600         | 0.8137 | 0.3700           | 0.9027 |
| 0.4100         | 0.8876 | 0.4200           | 0.9563 |
| 0.5100         | 0.9705 | 0.5300           | 0.9986 |
| 0.7200         | 1.0088 | 0.7300           | 1.0073 |
| 0.9100         | 1.0084 | 0.9400           | 1.0073 |
| 1.1100         | 1.0085 | 1.1500           | 1.0035 |
| 1.3000         | 1.0057 | 1.3500           | 0.9997 |
| 1.5300         | 1.0040 | 1.5500           | 1.0018 |
| 1.7400         | 1.0017 | 1.7500           | 0.9983 |
| 1.9400         | 0.9967 | 1.9500           | 0.9976 |
| 2.1400         | 0.9919 | 2.1600           | 0.9958 |
| 2.3500         | 0.9876 | 2.3700           | 0.9952 |
| 2.5500         | 0.9867 | 2.5800           | 0.9949 |

Flight 12 Test point 37

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 19900. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 383.7 Rnpu = 3153000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4188                     | 0.1338                      | 0.0531                  | none             |
| Outboard station rake | 0.3225                     | 0.1134                      | 0.0394                  | none             |

|  | Middle station |                    | Outboard station |                    |
|--|----------------|--------------------|------------------|--------------------|
|  | Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
|  | 0.0300         | 0.2640             | 0.0400           | 0.2509             |
|  | 0.0500         | 0.3404             | 0.0700           | 0.4251             |
|  | 0.1100         | 0.5903             | 0.1200           | 0.6688             |
|  | 0.1700         | 0.7270             | 0.1800           | 0.8019             |
|  | 0.2200         | 0.8017             | 0.2100           | 0.8852             |
|  | 0.2700         | 0.8717             | 0.2700           | 0.9554             |
|  | 0.3200         | 0.9264             | 0.3100           | 0.9899             |
|  | 0.3600         | 0.9676             | 0.3700           | 0.9979             |
|  | 0.4100         | 0.9885             | 0.4200           | 0.9999             |
|  | 0.5100         | 0.9982             | 0.5300           | 0.9989             |
|  | 0.7200         | 1.0017             | 0.7300           | 1.0013             |
|  | 0.9100         | 1.0003             | 0.9400           | 1.0026             |
|  | 1.1100         | 1.0025             | 1.1500           | 0.9992             |
|  | 1.3000         | 1.0013             | 1.3500           | 0.9980             |
|  | 1.5300         | 1.0002             | 1.5500           | 1.0016             |
|  | 1.7400         | 1.0007             | 1.7500           | 1.0023             |
|  | 1.9400         | 1.0016             | 1.9500           | 1.0029             |
|  | 2.1400         | 1.0014             | 2.1600           | 1.0020             |
|  | 2.3500         | 1.0021             | 2.3700           | 1.0026             |
|  | 2.5500         | 1.0014             | 2.5800           | 1.0009             |

Flight 13 Test point 1

Sweep, deg = 34.7 Mach = 0.71 hp, ft = 34400. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 180.5 Rrho = 1751000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7202                     | 0.1560                      | 0.0840                  | none             |
| Outboard station rake | 0.4650                     | 0.1122                      | 0.0544                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5738             | 0.0400           | 0.5922             |
| 0.0500         | 0.6000             | 0.0700           | 0.6302             |
| 0.1100         | 0.6476             | 0.1200           | 0.7065             |
| 0.1700         | 0.7123             | 0.1800           | 0.7642             |
| 0.2200         | 0.7380             | 0.2100           | 0.8132             |
| 0.2700         | 0.7799             | 0.2700           | 0.8656             |
| 0.3200         | 0.8146             | 0.3100           | 0.9177             |
| 0.3600         | 0.8528             | 0.3700           | 0.9477             |
| 0.4100         | 0.8794             | 0.4200           | 0.9801             |
| 0.5100         | 0.9355             | 0.5300           | 1.0015             |
| 0.7200         | 0.9999             | 0.7300           | 1.0024             |
| 0.9100         | 0.9989             | 0.9400           | 1.0056             |
| 1.1100         | 1.0003             | 1.1500           | 0.9971             |
| 1.3000         | 1.0014             | 1.3500           | 0.9921             |
| 1.5300         | 0.9940             | 1.5500           | 1.0025             |
| 1.7400         | 1.0031             | 1.7500           | 1.0045             |
| 1.9400         | 1.0016             | 1.9500           | 1.0084             |
| 2.1400         | 1.0000             | 2.1600           | 1.0009             |
| 2.3500         | 1.0006             | 2.3700           | 0.9994             |
| 2.5500         | 1.0001             | 2.5800           | 1.0054             |

Flight 13 Test point 2

Sweep, deg = 34.5 Mach = 0.70 hp, ft = 34400. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 177.0 Rrho = 1731000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7103                     | 0.1526                      | 0.0816                  | none             |
| Outboard station rake | 0.3345                     | 0.0830                      | 0.0384                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5687             | 0.0400           | 0.6428             |
| 0.0500         | 0.5924             | 0.0700           | 0.6844             |
| 0.1100         | 0.6589             | 0.1200           | 0.7665             |
| 0.1700         | 0.7031             | 0.1800           | 0.8332             |
| 0.2200         | 0.7384             | 0.2100           | 0.8891             |
| 0.2700         | 0.7831             | 0.2700           | 0.9444             |
| 0.3200         | 0.8155             | 0.3100           | 0.9799             |
| 0.3600         | 0.8573             | 0.3700           | 0.9930             |
| 0.4100         | 0.8845             | 0.4200           | 0.9999             |
| 0.5100         | 0.9482             | 0.5300           | 0.9990             |
| 0.7200         | 1.0022             | 0.7300           | 1.0047             |
| 0.9100         | 0.9986             | 0.9400           | 1.0054             |
| 1.1100         | 1.0012             | 1.1500           | 0.9957             |
| 1.3000         | 0.9987             | 1.3500           | 0.9891             |
| 1.5300         | 0.9983             | 1.5500           | 1.0012             |
| 1.7400         | 1.0008             | 1.7500           | 1.0035             |
| 1.9400         | 0.9999             | 1.9500           | 1.0041             |
| 2.1400         | 1.0027             | 2.1600           | 0.9983             |
| 2.3500         | 0.9981             | 2.3700           | 1.0015             |
| 2.5500         | 0.9996             | 2.5800           | 1.0047             |

Flight 13 Test point 3

Sweep, deg = 29.7 Mach = 0.71 hp, ft = 34900. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 178.2 Rrho = 1728000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5432                     | 0.1275                      | 0.0655                  | none             |
| Outboard station rake | 0.3997                     | 0.0907                      | 0.0420                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5563             | 0.0400           | 0.6001             |
| 0.0500         | 0.5990             | 0.0700           | 0.6618             |
| 0.1100         | 0.6670             | 0.1200           | 0.7472             |
| 0.1700         | 0.7334             | 0.1800           | 0.8204             |
| 0.2200         | 0.7765             | 0.2100           | 0.8686             |
| 0.2700         | 0.8292             | 0.2700           | 0.9284             |
| 0.3200         | 0.8694             | 0.3100           | 0.9727             |
| 0.3600         | 0.9116             | 0.3700           | 0.9942             |
| 0.4100         | 0.9418             | 0.4200           | 1.0037             |
| 0.5100         | 0.9851             | 0.5300           | 1.0016             |
| 0.7200         | 1.0045             | 0.7300           | 1.0033             |
| 0.9100         | 1.0001             | 0.9400           | 1.0040             |
| 1.1100         | 1.0009             | 1.1500           | 0.9956             |
| 1.3000         | 0.9993             | 1.3500           | 0.9884             |
| 1.5300         | 0.9991             | 1.5500           | 1.0008             |
| 1.7400         | 1.0024             | 1.7500           | 1.0035             |
| 1.9400         | 1.0050             | 1.9500           | 1.0019             |
| 2.1400         | 1.0019             | 2.1600           | 0.9983             |
| 2.3500         | 1.0010             | 2.3700           | 1.0000             |
| 2.5500         | 1.0006             | 2.5800           | 1.0049             |

Flight 13 Test point 4

Sweep, deg = 29.7 Mach = 0.70 hp, ft = 35100. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 171.9 Rrho = 1690000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4341                     | 0.1021                      | 0.0520                  | none             |
| Outboard station rake | 0.3224                     | 0.0809                      | 0.0366                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5940             | 0.0400           | 0.6219             |
| 0.0500         | 0.6421             | 0.0700           | 0.6862             |
| 0.1100         | 0.7090             | 0.1200           | 0.7762             |
| 0.1700         | 0.7794             | 0.1800           | 0.8500             |
| 0.2200         | 0.8294             | 0.2100           | 0.8997             |
| 0.2700         | 0.8794             | 0.2700           | 0.9543             |
| 0.3200         | 0.9226             | 0.3100           | 0.9897             |
| 0.3600         | 0.9585             | 0.3700           | 0.9945             |
| 0.4100         | 0.9820             | 0.4200           | 1.0020             |
| 0.5100         | 0.9993             | 0.5300           | 1.0018             |
| 0.7200         | 1.0051             | 0.7300           | 1.0030             |
| 0.9100         | 1.0002             | 0.9400           | 1.0065             |
| 1.1100         | 1.0007             | 1.1500           | 0.9962             |
| 1.3000         | 1.0025             | 1.3500           | 0.9899             |
| 1.5300         | 0.9998             | 1.5500           | 1.0013             |
| 1.7400         | 1.0032             | 1.7500           | 1.0022             |
| 1.9400         | 1.0019             | 1.9500           | 1.0026             |
| 2.1400         | 1.0027             | 2.1600           | 0.9997             |
| 2.3500         | 1.0008             | 2.3700           | 0.9986             |
| 2.5500         | 1.0018             | 2.5800           | 1.0019             |

Flight 13 Test point 5

Sweep, deg = 25.3 Mach = 0.71 hp, ft = 34600. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -0.2 QEAR, lb/ft<sup>2</sup> = 176.4 R<sub>npu</sub> = 1723000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.3645                     | 0.0875                      | 0.0425                  | none             |
| Outboard station rake | 0.2991                     | 0.0617                      | 0.0261                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5606             | 0.0400           | 0.6633             |
| 0.0500         | 0.6404             | 0.0700           | 0.7510             |
| 0.1100         | 0.7345             | 0.1200           | 0.8484             |
| 0.1700         | 0.8248             | 0.1800           | 0.9262             |
| 0.2200         | 0.8768             | 0.2100           | 0.9651             |
| 0.2700         | 0.9321             | 0.2700           | 0.9908             |
| 0.3200         | 0.9700             | 0.3100           | 1.0032             |
| 0.3600         | 0.9919             | 0.3700           | 1.0018             |
| 0.4100         | 0.9965             | 0.4200           | 1.0020             |
| 0.5100         | 0.9987             | 0.5300           | 0.9981             |
| 0.7200         | 1.0048             | 0.7300           | 1.0013             |
| 0.9100         | 0.9978             | 0.9400           | 1.0035             |
| 1.1100         | 1.0008             | 1.1500           | 0.9970             |
| 1.3000         | 1.0019             | 1.3500           | 0.9911             |
| 1.5300         | 1.0002             | 1.5500           | 1.0028             |
| 1.7400         | 1.0018             | 1.7500           | 1.0029             |
| 1.9400         | 1.0024             | 1.9500           | 1.0021             |
| 2.1400         | 0.9998             | 2.1600           | 0.9992             |
| 2.3500         | 1.0024             | 2.3700           | 1.0019             |
| 2.5500         | 1.0009             | 2.5800           | 1.0024             |

Flight 13 Test point 6

Sweep, deg = 25.1 Mach = 0.71 hp, ft = 34100. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 182.5 R<sub>npu</sub> = 1766000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.3935                     | 0.1030                      | 0.0497                  | none             |
| Outboard station rake | 0.3010                     | 0.0754                      | 0.0325                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5073             | 0.0400           | 0.5949             |
| 0.0500         | 0.5923             | 0.0700           | 0.6930             |
| 0.1100         | 0.6950             | 0.1200           | 0.8002             |
| 0.1700         | 0.7868             | 0.1800           | 0.8809             |
| 0.2200         | 0.8367             | 0.2100           | 0.9291             |
| 0.2700         | 0.8961             | 0.2700           | 0.9780             |
| 0.3200         | 0.9388             | 0.3100           | 0.9997             |
| 0.3600         | 0.9732             | 0.3700           | 0.9990             |
| 0.4100         | 0.9907             | 0.4200           | 1.0041             |
| 0.5100         | 0.9983             | 0.5300           | 1.0011             |
| 0.7200         | 1.0036             | 0.7300           | 1.0014             |
| 0.9100         | 0.9981             | 0.9400           | 1.0069             |
| 1.1100         | 1.0017             | 1.1500           | 0.9996             |
| 1.3000         | 1.0013             | 1.3500           | 0.9925             |
| 1.5300         | 1.0012             | 1.5500           | 1.0036             |
| 1.7400         | 1.0010             | 1.7500           | 1.0023             |
| 1.9400         | 1.0011             | 1.9500           | 1.0040             |
| 2.1400         | 1.0022             | 2.1600           | 1.0026             |
| 2.3500         | 0.9996             | 2.3700           | 1.0023             |
| 2.5500         | 1.0013             | 2.5800           | 1.0027             |



Flight 13 Test point 7

Sweep, deg = 20.0 Mach = 0.71 hp, ft = 34400. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 178.2 Rrho = 1738000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4279                     | 0.1239                      | 0.0485                  | none             |
| Outboard station rake | 0.3141                     | 0.0968                      | 0.0353                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.0952             | 0.0400           | 0.2809             |
| 0.0500         | 0.4506             | 0.0700           | 0.5700             |
| 0.1100         | 0.6449             | 0.1200           | 0.7545             |
| 0.1700         | 0.7678             | 0.1800           | 0.8589             |
| 0.2200         | 0.8322             | 0.2100           | 0.9127             |
| 0.2700         | 0.8878             | 0.2700           | 0.9663             |
| 0.3200         | 0.9356             | 0.3100           | 0.9912             |
| 0.3600         | 0.9703             | 0.3700           | 0.9953             |
| 0.4100         | 0.9849             | 0.4200           | 1.0025             |
| 0.5100         | 0.9970             | 0.5300           | 0.9985             |
| 0.7200         | 1.0021             | 0.7300           | 1.0018             |
| 0.9100         | 0.9999             | 0.9400           | 1.0036             |
| 1.1100         | 1.0000             | 1.1500           | 0.9967             |
| 1.3000         | 1.0032             | 1.3500           | 0.9923             |
| 1.5300         | 1.0029             | 1.5500           | 1.0036             |
| 1.7400         | 1.0036             | 1.7500           | 1.0033             |
| 1.9400         | 1.0020             | 1.9500           | 1.0050             |
| 2.1400         | 1.0017             | 2.1600           | 1.0020             |
| 2.3500         | 1.0020             | 2.3700           | 1.0018             |
| 2.5500         | 1.0006             | 2.5800           | 1.0022             |

Flight 13 Test point 8

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 34300. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 174.8 R<sub>npu</sub> = 1720000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | 0.4701                        | 0.1429                         | 0.0589                     | none                |
| Outboard station rake | 0.3390                        | 0.1184                         | 0.0440                     | none                |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2730             | 0.0400           | 0.3118             |
| 0.0500         | 0.3349             | 0.0700           | 0.4060             |
| 0.1100         | 0.5813             | 0.1200           | 0.6591             |
| 0.1700         | 0.7162             | 0.1800           | 0.7836             |
| 0.2200         | 0.7803             | 0.2100           | 0.8502             |
| 0.2700         | 0.8447             | 0.2700           | 0.9228             |
| 0.3200         | 0.8961             | 0.3100           | 0.9716             |
| 0.3600         | 0.9392             | 0.3700           | 0.9902             |
| 0.4100         | 0.9684             | 0.4200           | 1.0004             |
| 0.5100         | 0.9983             | 0.5300           | 0.9993             |
| 0.7200         | 1.0035             | 0.7300           | 1.0023             |
| 0.9100         | 1.0018             | 0.9400           | 1.0048             |
| 1.1100         | 1.0045             | 1.1500           | 0.9953             |
| 1.3000         | 1.0036             | 1.3500           | 0.9932             |
| 1.5300         | 1.0036             | 1.5500           | 1.0039             |
| 1.7400         | 1.0051             | 1.7500           | 1.0028             |
| 1.9400         | 1.0044             | 1.9500           | 1.0019             |
| 2.1400         | 1.0022             | 2.1600           | 1.0013             |
| 2.3500         | 1.0032             | 2.3700           | 1.0009             |
| 2.5500         | 1.0014             | 2.5800           | 1.0037             |

Flight 13 Test point 9

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 34300. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 202.2 Rrho = 1867000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4413                     | 0.1338                      | 0.0533                  | none             |
| Outboard station rake | 0.3305                     | 0.1063                      | 0.0379                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1580             | 0.0400           | 0.2216             |
| 0.0500         | 0.4037             | 0.0700           | 0.5298             |
| 0.1100         | 0.6152             | 0.1200           | 0.7276             |
| 0.1700         | 0.7445             | 0.1800           | 0.8323             |
| 0.2200         | 0.8051             | 0.2100           | 0.8886             |
| 0.2700         | 0.8674             | 0.2700           | 0.9464             |
| 0.3200         | 0.9146             | 0.3100           | 0.9827             |
| 0.3600         | 0.9549             | 0.3700           | 0.9916             |
| 0.4100         | 0.9747             | 0.4200           | 1.0000             |
| 0.5100         | 0.9961             | 0.5300           | 0.9998             |
| 0.7200         | 1.0020             | 0.7300           | 0.9995             |
| 0.9100         | 1.0012             | 0.9400           | 1.0047             |
| 1.1100         | 1.0029             | 1.1500           | 0.9962             |
| 1.3000         | 1.0032             | 1.3500           | 0.9936             |
| 1.5300         | 1.0015             | 1.5500           | 1.0032             |
| 1.7400         | 1.0021             | 1.7500           | 1.0012             |
| 1.9400         | 1.0051             | 1.9500           | 1.0042             |
| 2.1400         | 1.0048             | 2.1600           | 1.0019             |
| 2.3500         | 1.0031             | 2.3700           | 1.0007             |
| 2.5500         | 1.0033             | 2.5800           | 1.0034             |

Flight 13 Test point 10

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 35700. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 191.9 Rrho = 1781000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6310                     | 0.1244                      | 0.0613                  | none             |
| Outboard station rake | 0.6466                     | 0.1170                      | 0.0557                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4070             | 0.0400           | 0.4546             |
| 0.0500         | 0.5658             | 0.0700           | 0.6444             |
| 0.1100         | 0.7138             | 0.1200           | 0.7718             |
| 0.1700         | 0.7977             | 0.1800           | 0.8327             |
| 0.2200         | 0.8314             | 0.2100           | 0.8545             |
| 0.2700         | 0.8714             | 0.2700           | 0.8897             |
| 0.3200         | 0.8939             | 0.3100           | 0.9142             |
| 0.3600         | 0.9251             | 0.3700           | 0.9274             |
| 0.4100         | 0.9368             | 0.4200           | 0.9473             |
| 0.5100         | 0.9708             | 0.5300           | 0.9759             |
| 0.7200         | 1.0026             | 0.7300           | 1.0022             |
| 0.9100         | 1.0013             | 0.9400           | 1.0061             |
| 1.1100         | 1.0025             | 1.1500           | 1.0003             |
| 1.3000         | 1.0048             | 1.3500           | 0.9939             |
| 1.5300         | 1.0024             | 1.5500           | 1.0030             |
| 1.7400         | 1.0033             | 1.7500           | 1.0031             |
| 1.9400         | 1.0045             | 1.9500           | 1.0045             |
| 2.1400         | 1.0017             | 2.1600           | 1.0027             |
| 2.3500         | 1.0022             | 2.3700           | 1.0032             |
| 2.5500         | 1.0040             | 2.5800           | 1.0050             |

Flight 13 Test point 11

Sweep, deg = 25.6 Mach = 0.75 hp, ft = 34500. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 202.7 Rrho = 186500.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | 0.4279                        | 0.1215                         | 0.0558                     | none                |
| Outboard station rake | 0.3027                        | 0.0807                         | 0.0340                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.4211 | 0.0400           | 0.5550 |
| 0.0500         | 0.5260 | 0.0700           | 0.6636 |
| 0.1100         | 0.6428 | 0.1200           | 0.7819 |
| 0.1700         | 0.7374 | 0.1800           | 0.8701 |
| 0.2200         | 0.8003 | 0.2100           | 0.9258 |
| 0.2700         | 0.8668 | 0.2700           | 0.9762 |
| 0.3200         | 0.9148 | 0.3100           | 0.9996 |
| 0.3600         | 0.9577 | 0.3700           | 0.9995 |
| 0.4100         | 0.9823 | 0.4200           | 1.0021 |
| 0.5100         | 0.9997 | 0.5300           | 1.0013 |
| 0.7200         | 1.0030 | 0.7300           | 1.0030 |
| 0.9100         | 1.0006 | 0.9400           | 1.0040 |
| 1.1100         | 0.9992 | 1.1500           | 0.9961 |
| 1.3000         | 1.0028 | 1.3500           | 0.9940 |
| 1.5300         | 0.9992 | 1.5500           | 1.0035 |
| 1.7400         | 1.0028 | 1.7500           | 1.0059 |
| 1.9400         | 1.0043 | 1.9500           | 1.0069 |
| 2.1400         | 1.0022 | 2.1600           | 1.0018 |
| 2.3500         | 1.0012 | 2.3700           | 1.0032 |
| 2.5500         | 1.0028 | 2.5800           | 1.0029 |

Flight 13 Test point 12

Sweep, deg = 25.7 Mach = 0.75 hp, ft = 34800. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 200.3 Rnpu = 1847000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4310                     | 0.1238                      | 0.0570                  | none             |
| Outboard station rake | 0.3300                     | 0.0885                      | 0.0380                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4284             | 0.0400           | 0.5294             |
| 0.0500         | 0.5166             | 0.0700           | 0.6413             |
| 0.1100         | 0.6438             | 0.1200           | 0.7595             |
| 0.1700         | 0.7386             | 0.1800           | 0.8453             |
| 0.2200         | 0.7962             | 0.2100           | 0.8980             |
| 0.2700         | 0.8554             | 0.2700           | 0.9536             |
| 0.3200         | 0.9050             | 0.3100           | 0.9853             |
| 0.3600         | 0.9505             | 0.3700           | 0.9938             |
| 0.4100         | 0.9791             | 0.4200           | 1.0033             |
| 0.5100         | 0.9989             | 0.5300           | 1.0002             |
| 0.7200         | 1.0025             | 0.7300           | 1.0036             |
| 0.9100         | 1.0001             | 0.9400           | 1.0043             |
| 1.1100         | 1.0017             | 1.1500           | 0.9959             |
| 1.3000         | 1.0013             | 1.3500           | 0.9923             |
| 1.5300         | 1.0011             | 1.5500           | 1.0003             |
| 1.7400         | 1.0053             | 1.7500           | 1.0003             |
| 1.9400         | 1.0036             | 1.9500           | 1.0037             |
| 2.1400         | 1.0032             | 2.1600           | 0.9999             |
| 2.3500         | 0.9997             | 2.3700           | 0.9998             |
| 2.5500         | 1.0035             | 2.5800           | 1.0025             |

Flight 13 Test point 13

Sweep, deg = 30.4 Mach = 0.76 hp, ft = 35000. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 199.3 Rrho = 1837000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7046                     | 0.1561                      | 0.0790                  | none             |
| Outboard station rake | 0.4558                     | 0.1253                      | 0.0576                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5292             | 0.0400           | 0.5263             |
| 0.0500         | 0.5616             | 0.0700           | 0.5850             |
| 0.1100         | 0.6328             | 0.1200           | 0.6701             |
| 0.1700         | 0.6869             | 0.1800           | 0.7362             |
| 0.2200         | 0.7324             | 0.2100           | 0.7821             |
| 0.2700         | 0.7834             | 0.2700           | 0.8493             |
| 0.3200         | 0.8247             | 0.3100           | 0.9006             |
| 0.3600         | 0.8679             | 0.3700           | 0.9432             |
| 0.4100         | 0.8970             | 0.4200           | 0.9787             |
| 0.5100         | 0.9596             | 0.5300           | 1.0013             |
| 0.7200         | 1.0028             | 0.7300           | 0.9999             |
| 0.9100         | 0.9988             | 0.9400           | 1.0035             |
| 1.1100         | 1.0000             | 1.1500           | 0.9982             |
| 1.3000         | 1.0003             | 1.3500           | 0.9957             |
| 1.5300         | 0.9958             | 1.5500           | 1.0042             |
| 1.7400         | 1.0017             | 1.7500           | 1.0020             |
| 1.9400         | 1.0014             | 1.9500           | 1.0073             |
| 2.1400         | 0.9993             | 2.1600           | 1.0013             |
| 2.3500         | 0.9988             | 2.3700           | 1.0027             |
| 2.5500         | 1.0012             | 2.5800           | 1.0052             |

Flight 13 Test point 14

Sweep, deg = 30.4 Mach = 0.75 hp, ft = 34900. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 197.9 Rrho = 1832000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4344                     | 0.1119                      | 0.0552                  | none             |
| Outboard station rake | 0.3150                     | 0.0808                      | 0.0355                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5625             | 0.0400           | 0.6246             |
| 0.0500         | 0.6055             | 0.0700           | 0.6847             |
| 0.1100         | 0.6826             | 0.1200           | 0.7749             |
| 0.1700         | 0.7597             | 0.1800           | 0.8552             |
| 0.2200         | 0.8040             | 0.2100           | 0.9072             |
| 0.2700         | 0.8640             | 0.2700           | 0.9637             |
| 0.3200         | 0.9115             | 0.3100           | 0.9932             |
| 0.3600         | 0.9504             | 0.3700           | 0.9985             |
| 0.4100         | 0.9804             | 0.4200           | 1.0032             |
| 0.5100         | 0.9987             | 0.5300           | 1.0011             |
| 0.7200         | 1.0024             | 0.7300           | 1.0007             |
| 0.9100         | 1.0007             | 0.9400           | 1.0039             |
| 1.1100         | 1.0013             | 1.1500           | 0.9968             |
| 1.3000         | 1.0020             | 1.3500           | 0.9910             |
| 1.5300         | 1.0010             | 1.5500           | 1.0024             |
| 1.7400         | 1.0018             | 1.7500           | 1.0020             |
| 1.9400         | 1.0033             | 1.9500           | 1.0044             |
| 2.1400         | 1.0034             | 2.1600           | 1.0015             |
| 2.3500         | 1.0013             | 2.3700           | 0.9993             |
| 2.5500         | 1.0036             | 2.5800           | 1.0021             |



Flight 13 Test point 15

Sweep, deg = 34.9 Mach = 0.75 hp, ft = 35500. Angle of attack, deg = -0.3  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 191.9 Rrho = 1784000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7251                     | 0.1716                      | 0.0896                  | none             |
| Outboard station rake | 0.5447                     | 0.1353                      | 0.0659                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5507             | 0.0400           | 0.5596             |
| 0.0500         | 0.5742             | 0.0700           | 0.6012             |
| 0.1100         | 0.6253             | 0.1200           | 0.6695             |
| 0.1700         | 0.6825             | 0.1800           | 0.7292             |
| 0.2200         | 0.7163             | 0.2100           | 0.7637             |
| 0.2700         | 0.7591             | 0.2700           | 0.8223             |
| 0.3200         | 0.7960             | 0.3100           | 0.8653             |
| 0.3600         | 0.8349             | 0.3700           | 0.9022             |
| 0.4100         | 0.8628             | 0.4200           | 0.9419             |
| 0.5100         | 0.9186             | 0.5300           | 0.9899             |
| 0.7200         | 0.9983             | 0.7300           | 1.0027             |
| 0.9100         | 0.9985             | 0.9400           | 1.0049             |
| 1.1100         | 1.0022             | 1.1500           | 0.9968             |
| 1.3000         | 1.0025             | 1.3500           | 0.9925             |
| 1.5300         | 0.9971             | 1.5500           | 1.0041             |
| 1.7400         | 1.0018             | 1.7500           | 1.0032             |
| 1.9400         | 0.9999             | 1.9500           | 1.0017             |
| 2.1400         | 1.0015             | 2.1600           | 1.0016             |
| 2.3500         | 1.0003             | 2.3700           | 1.0000             |
| 2.5500         | 0.9978             | 2.5800           | 1.0026             |

Flight 13 Test point 16

Sweep, deg = 34.9 Mach = 0.75 hp, ft = 35100. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 197.1 R<sub>npu</sub> = 1821000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7273                     | 0.1744                      | 0.0900                  | none             |
| Outboard station rake | 0.4884                     | 0.1312                      | 0.0624                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5504             | 0.0400           | 0.5658             |
| 0.0500         | 0.5660             | 0.0700           | 0.6020             |
| 0.1100         | 0.6236             | 0.1200           | 0.6769             |
| 0.1700         | 0.6749             | 0.1800           | 0.7290             |
| 0.2200         | 0.7107             | 0.2100           | 0.7658             |
| 0.2700         | 0.7540             | 0.2700           | 0.8271             |
| 0.3200         | 0.7908             | 0.3100           | 0.8788             |
| 0.3600         | 0.8265             | 0.3700           | 0.9140             |
| 0.4100         | 0.8600             | 0.4200           | 0.9523             |
| 0.5100         | 0.9213             | 0.5300           | 0.9950             |
| 0.7200         | 0.9977             | 0.7300           | 1.0015             |
| 0.9100         | 0.9989             | 0.9400           | 1.0061             |
| 1.1100         | 1.0009             | 1.1500           | 0.9971             |
| 1.3000         | 1.0016             | 1.3500           | 0.9917             |
| 1.5300         | 0.9948             | 1.5500           | 1.0025             |
| 1.7400         | 1.0010             | 1.7500           | 1.0019             |
| 1.9400         | 1.0012             | 1.9500           | 1.0019             |
| 2.1400         | 1.0017             | 2.1600           | 0.9992             |
| 2.3500         | 1.0003             | 2.3700           | 1.0009             |
| 2.5500         | 1.0019             | 2.5800           | 1.0023             |

Flight 13 Test point 17

Sweep, deg = 34.9 Mach = 0.80 hp, ft = 34900. Angle of attack, deg = 2.9  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 224.0 Rrho = 1963000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9177                     | 0.2717                      | 0.1261                  | none             |
| Outboard station rake | 0.8023                     | 0.2331                      | 0.1062                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4501             | 0.0400           | 0.4578             |
| 0.0500         | 0.4661             | 0.0700           | 0.4888             |
| 0.1100         | 0.5061             | 0.1200           | 0.5388             |
| 0.1700         | 0.5483             | 0.1800           | 0.5875             |
| 0.2200         | 0.5785             | 0.2100           | 0.6129             |
| 0.2700         | 0.6202             | 0.2700           | 0.6611             |
| 0.3200         | 0.6516             | 0.3100           | 0.6989             |
| 0.3800         | 0.6961             | 0.3700           | 0.7460             |
| 0.4100         | 0.7268             | 0.4200           | 0.7960             |
| 0.5100         | 0.8015             | 0.5300           | 0.8799             |
| 0.7200         | 0.9490             | 0.7300           | 0.9962             |
| 0.9100         | 0.9982             | 0.9400           | 1.0064             |
| 1.1100         | 1.0011             | 1.1500           | 0.9977             |
| 1.3000         | 1.0013             | 1.3500           | 0.9949             |
| 1.5300         | 0.9971             | 1.5500           | 1.0036             |
| 1.7400         | 1.0006             | 1.7500           | 0.9995             |
| 1.9400         | 1.0007             | 1.9500           | 1.0015             |
| 2.1400         | 1.0025             | 2.1600           | 0.9985             |
| 2.3500         | 0.9984             | 2.3700           | 0.9970             |
| 2.5500         | 1.0002             | 2.5800           | 1.0008             |

Flight 13 Test point 18

Sweep, deg = 34.9 Mach = 0.80 hp, ft = 35100. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 221.7 Rrho = 1946000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7345                     | 0.1934                      | 0.0960                  | none             |
| Outboard station rake | 0.5758                     | 0.1575                      | 0.0738                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5159             | 0.0400           | 0.5212             |
| 0.0500         | 0.5383             | 0.0700           | 0.5682             |
| 0.1100         | 0.5867             | 0.1200           | 0.6313             |
| 0.1700         | 0.6504             | 0.1800           | 0.6868             |
| 0.2200         | 0.6790             | 0.2100           | 0.7184             |
| 0.2700         | 0.7271             | 0.2700           | 0.7808             |
| 0.3200         | 0.7605             | 0.3100           | 0.8295             |
| 0.3600         | 0.8083             | 0.3700           | 0.8744             |
| 0.4100         | 0.8370             | 0.4200           | 0.9172             |
| 0.5100         | 0.9044             | 0.5300           | 0.9776             |
| 0.7200         | 0.9945             | 0.7300           | 1.0035             |
| 0.9100         | 0.9994             | 0.9400           | 1.0060             |
| 1.1100         | 1.0018             | 1.1500           | 0.9970             |
| 1.3000         | 1.0017             | 1.3500           | 0.9960             |
| 1.5300         | 0.9979             | 1.5500           | 1.0045             |
| 1.7400         | 1.0008             | 1.7500           | 1.0033             |
| 1.9400         | 1.0024             | 1.9500           | 1.0061             |
| 2.1400         | 0.9995             | 2.1600           | 1.0006             |
| 2.3500         | 0.9998             | 2.3700           | 1.0018             |
| 2.5500         | 1.0022             | 2.5800           | 1.0037             |

Flight 13 Test point 19

Sweep, deg = 34.9 Mach = 0.80 hp, ft = 34600. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 227.3 Rrho = 1985000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9273                     | 0.2075                      | 0.1021                  | none             |
| Outboard station rake | 0.5804                     | 0.1699                      | 0.0784                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5086             | 0.0400           | 0.5091             |
| 0.0500         | 0.5256             | 0.0700           | 0.5483             |
| 0.1100         | 0.5773             | 0.1200           | 0.6083             |
| 0.1700         | 0.6278             | 0.1800           | 0.6518             |
| 0.2200         | 0.6619             | 0.2100           | 0.6895             |
| 0.2700         | 0.7080             | 0.2700           | 0.7555             |
| 0.3200         | 0.7414             | 0.3100           | 0.8071             |
| 0.3600         | 0.7842             | 0.3700           | 0.8538             |
| 0.4100         | 0.8143             | 0.4200           | 0.9001             |
| 0.5100         | 0.8856             | 0.5300           | 0.9708             |
| 0.7200         | 0.9907             | 0.7300           | 0.9996             |
| 0.9100         | 0.9993             | 0.9400           | 1.0044             |
| 1.1100         | 1.0008             | 1.1500           | 0.9976             |
| 1.3000         | 1.0018             | 1.3500           | 0.9928             |
| 1.5300         | 0.9990             | 1.5500           | 1.0011             |
| 1.7400         | 1.0009             | 1.7500           | 1.0012             |
| 1.9400         | 0.9982             | 1.9500           | 1.0016             |
| 2.1400         | 0.9998             | 2.1600           | 1.0002             |
| 2.3500         | 0.9995             | 2.3700           | 1.0010             |
| 2.5500         | 1.0006             | 2.5800           | 1.0006             |

Flight 13 Test point 20

Sweep, deg = 30.7 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 2.4  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 224.4 R<sub>rho</sub> = 1963000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7160                     | 0.2873                      | 0.1093                  | none             |
| Outboard station rake | 0.4754                     | 0.1753                      | 0.0661                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3278             | 0.0400           | 0.3632             |
| 0.0500         | 0.3416             | 0.0700           | 0.4056             |
| 0.1100         | 0.3683             | 0.1200           | 0.5035             |
| 0.1700         | 0.4205             | 0.1800           | 0.5857             |
| 0.2200         | 0.4587             | 0.2100           | 0.6644             |
| 0.2700         | 0.5198             | 0.2700           | 0.7743             |
| 0.3200         | 0.5822             | 0.3100           | 0.8518             |
| 0.3600         | 0.6509             | 0.3700           | 0.9148             |
| 0.4100         | 0.7170             | 0.4200           | 0.9569             |
| 0.5100         | 0.8561             | 0.5300           | 0.9919             |
| 0.7200         | 1.0026             | 0.7300           | 1.0050             |
| 0.9100         | 1.0049             | 0.9400           | 1.0072             |
| 1.1100         | 1.0038             | 1.1500           | 1.0028             |
| 1.3000         | 1.0045             | 1.3500           | 0.9984             |
| 1.5300         | 1.0005             | 1.5500           | 1.0034             |
| 1.7400         | 1.0053             | 1.7500           | 1.0016             |
| 1.9400         | 1.0023             | 1.9500           | 1.0012             |
| 2.1400         | 0.9951             | 2.1600           | 0.9966             |
| 2.3500         | 0.9924             | 2.3700           | 0.9964             |
| 2.5500         | 0.9912             | 2.5800           | 0.9955             |

Flight 13 Test point 21

Sweep, deg = 30.7 Mach = 0.80 hp, ft = 34200. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 233.7 R<sub>npu</sub> = 2027000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 1.0893                     | 0.2293                      | 0.1053                  | none             |
| Outboard station rake | 0.6889                     | 0.1929                      | 0.0829                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4413             | 0.0400           | 0.3951             |
| 0.0500         | 0.4650             | 0.0700           | 0.4613             |
| 0.1100         | 0.5144             | 0.1200           | 0.5377             |
| 0.1700         | 0.5735             | 0.1800           | 0.6013             |
| 0.2200         | 0.6057             | 0.2100           | 0.6405             |
| 0.2700         | 0.6619             | 0.2700           | 0.7018             |
| 0.3200         | 0.6986             | 0.3100           | 0.7637             |
| 0.3600         | 0.7486             | 0.3700           | 0.8256             |
| 0.4100         | 0.7915             | 0.4200           | 0.8877             |
| 0.5100         | 0.8810             | 0.5300           | 0.9841             |
| 0.7200         | 0.9974             | 0.7300           | 1.0035             |
| 0.9100         | 0.9989             | 0.9400           | 1.0055             |
| 1.1000         | 1.0003             | 1.1500           | 0.9983             |
| 1.3000         | 1.0019             | 1.3500           | 0.9920             |
| 1.5300         | 0.9965             | 1.5500           | 1.0026             |
| 1.7400         | 1.0020             | 1.7500           | 0.9986             |
| 1.9400         | 1.0028             | 1.9500           | 1.0019             |
| 2.1400         | 0.9995             | 2.1600           | 0.9993             |
| 2.3500         | 0.9991             | 2.3700           | 0.9983             |
| 2.5500         | 0.9991             | 2.5800           | 1.0000             |

Flight 13 Test point 22

Sweep, deg = 30.7 Mach = 0.80  $\rho$ , ft = 34700. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.0  $\mu$ AR, lb/ft<sup>2</sup> = 226.6  $R_{\rho u}$  = 1981000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7828                     | 0.2402                      | 0.1058                  | none             |
| Outboard station rake | 0.6638                     | 0.2225                      | 0.0801                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4066             | 0.0400           | 0.1601             |
| 0.0500         | 0.4277             | 0.0700           | 0.2983             |
| 0.1100         | 0.4768             | 0.1200           | 0.4335             |
| 0.1700         | 0.5395             | 0.1800           | 0.5196             |
| 0.2200         | 0.5755             | 0.2100           | 0.5750             |
| 0.2700         | 0.6268             | 0.2700           | 0.6588             |
| 0.3200         | 0.6729             | 0.3100           | 0.7330             |
| 0.3600         | 0.7270             | 0.3700           | 0.8112             |
| 0.4100         | 0.7742             | 0.4200           | 0.8844             |
| 0.5100         | 0.8854             | 0.5300           | 0.9860             |
| 0.7200         | 0.9998             | 0.7300           | 1.0060             |
| 0.9100         | 1.0003             | 0.9400           | 1.0073             |
| 1.1100         | 1.0017             | 1.1500           | 0.9994             |
| 1.3000         | 1.0003             | 1.3500           | 0.9947             |
| 1.5300         | 0.9993             | 1.5500           | 1.0006             |
| 1.7400         | 1.0018             | 1.7500           | 0.9990             |
| 1.9400         | 0.9997             | 1.9500           | 1.0004             |
| 2.1400         | 0.9996             | 2.1600           | 0.9950             |
| 2.3500         | 0.9994             | 2.3700           | 0.9985             |
| 2.5500         | 0.9977             | 2.5800           | 0.9991             |



Flight 13 Test point 23

Sweep, deg = 25.1 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 225.3 R<sub>npu</sub> = 1969000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5012                     | 0.2276                      | 0.0601                  | none             |
| Outboard station rake | 0.4068                     | 0.1873                      | 0.0522                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4033             | 0.0400           | 0.3442             |
| 0.0500         | 0.3621             | 0.0700           | 0.2626             |
| 0.1100         | 0.0440             | 0.1200           | 0.3292             |
| 0.1700         | 0.4090             | 0.1800           | 0.5264             |
| 0.2200         | 0.5511             | 0.2100           | 0.6683             |
| 0.2700         | 0.6817             | 0.2700           | 0.8109             |
| 0.3200         | 0.7895             | 0.3100           | 0.9029             |
| 0.3600         | 0.8794             | 0.3700           | 0.9650             |
| 0.4100         | 0.9467             | 0.4200           | 0.9933             |
| 0.5100         | 1.0048             | 0.5300           | 1.0027             |
| 0.7200         | 1.0078             | 0.7300           | 1.0056             |
| 0.9100         | 1.0060             | 0.9400           | 1.0057             |
| 1.1100         | 1.0074             | 1.1500           | 1.0018             |
| 1.3000         | 1.0055             | 1.3500           | 0.9992             |
| 1.5300         | 1.0054             | 1.5500           | 1.0041             |
| 1.7400         | 1.0012             | 1.7500           | 1.0007             |
| 1.9400         | 0.9936             | 1.9500           | 1.0000             |
| 2.1400         | 0.9906             | 2.1600           | 0.9954             |
| 2.3500         | 0.9869             | 2.3700           | 0.9951             |
| 2.5500         | 0.9908             | 2.5800           | 0.9954             |

Flight 13 Test point 24

Sweep, deg = 24.9 Mach = 0.80 hp, ft = 34400. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 227.1 Rrho = 1989000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5176                     | 0.2008                      | 0.0753                  | none             |
| Outboard station rake | 0.4427                     | 0.1939                      | 0.0582                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2192             | 0.0400           | 0.2854             |
| 0.0500         | 0.3055             | 0.0700           | 0.4097             |
| 0.1100         | 0.4228             | 0.1200           | 0.4155             |
| 0.1700         | 0.5261             | 0.1800           | 0.5536             |
| 0.2200         | 0.6050             | 0.2100           | 0.6348             |
| 0.2700         | 0.7008             | 0.2700           | 0.7420             |
| 0.3200         | 0.7780             | 0.3100           | 0.8464             |
| 0.3600         | 0.8499             | 0.3700           | 0.9375             |
| 0.4100         | 0.9185             | 0.4200           | 0.9812             |
| 0.5100         | 0.9946             | 0.5300           | 1.0027             |
| 0.7200         | 1.0053             | 0.7300           | 1.0031             |
| 0.9100         | 1.0004             | 0.9400           | 1.0060             |
| 1.1100         | 1.0033             | 1.1500           | 1.0012             |
| 1.3000         | 1.0030             | 1.3500           | 0.9972             |
| 1.5300         | 1.0014             | 1.5500           | 1.0036             |
| 1.7400         | 1.0013             | 1.7500           | 1.0013             |
| 1.9400         | 0.9976             | 1.9500           | 1.0026             |
| 2.1400         | 0.9981             | 2.1600           | 1.0010             |
| 2.3500         | 0.9955             | 2.3700           | 0.9997             |
| 2.5500         | 0.9994             | 2.5800           | 1.0004             |

Flight 13 Test point 25

Sweep, deg = 24.9 Mach = 0.80 hp, ft = 34900. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 224.4 Rrho = 1966000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5090                     | 0.2170                      | 0.0644                  | none             |
| Outboard station rake | 0.4410                     | 0.1953                      | 0.0552                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3854             | 0.0400           | 0.3308             |
| 0.0500         | 0.3247             | 0.0700           | 0.2736             |
| 0.1100         | 0.1795             | 0.1200           | 0.3030             |
| 0.1700         | 0.4467             | 0.1800           | 0.5003             |
| 0.2200         | 0.5747             | 0.2100           | 0.6347             |
| 0.2700         | 0.6972             | 0.2700           | 0.7757             |
| 0.3200         | 0.8004             | 0.3100           | 0.8828             |
| 0.3600         | 0.8859             | 0.3700           | 0.9531             |
| 0.4100         | 0.9515             | 0.4200           | 0.9868             |
| 0.5100         | 1.0004             | 0.5300           | 1.0022             |
| 0.7200         | 1.0070             | 0.7300           | 1.0063             |
| 0.9100         | 1.0037             | 0.9400           | 1.0054             |
| 1.1100         | 1.0053             | 1.1500           | 1.0018             |
| 1.3000         | 1.0055             | 1.3500           | 0.9994             |
| 1.5300         | 1.0038             | 1.5500           | 1.0034             |
| 1.7400         | 1.0052             | 1.7500           | 1.0018             |
| 1.9400         | 0.9949             | 1.9500           | 1.0023             |
| 2.1400         | 0.9940             | 2.1600           | 0.9963             |
| 2.3500         | 0.9905             | 2.3700           | 0.9960             |
| 2.5500         | 0.9897             | 2.5800           | 0.9983             |

Flight 13 Test point 26

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 34900. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 223.6 R<sub>pu</sub> = 1961000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5357                     | 0.2165                      | 0.0641                  | none             |
| Outboard station rake | 0.4685                     | 0.2180                      | 0.0615                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4007             | 0.0400           | 0.3732             |
| 0.0500         | 0.3552             | 0.0700           | 0.3471             |
| 0.1100         | 0.2231             | 0.1200           | 0.2401             |
| 0.1700         | 0.4764             | 0.1800           | 0.4367             |
| 0.2200         | 0.6082             | 0.2100           | 0.5746             |
| 0.2700         | 0.7267             | 0.2700           | 0.7124             |
| 0.3200         | 0.8233             | 0.3100           | 0.8148             |
| 0.3600         | 0.8911             | 0.3700           | 0.9000             |
| 0.4100         | 0.9396             | 0.4200           | 0.9524             |
| 0.5100         | 0.9886             | 0.5300           | 0.9956             |
| 0.7200         | 1.0055             | 0.7300           | 1.0059             |
| 0.9100         | 1.0061             | 0.9400           | 1.0056             |
| 1.1100         | 1.0064             | 1.1500           | 1.0012             |
| 1.3000         | 1.0048             | 1.3500           | 0.9977             |
| 1.5300         | 1.0043             | 1.5500           | 1.0025             |
| 1.7400         | 1.0023             | 1.7500           | 1.0016             |
| 1.9400         | 0.9975             | 1.9500           | 0.9992             |
| 2.1400         | 0.9932             | 2.1600           | 0.9963             |
| 2.3500         | 0.9949             | 2.3700           | 0.9977             |
| 2.5500         | 0.9963             | 2.5800           | 0.9966             |

Flight 13 Test point 27

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 34700. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 226.6 Rrho = 1982000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5290                     | 0.2320                      | 0.0680                  | none             |
| Outboard station rake | 0.4614                     | 0.2108                      | 0.0614                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4482             | 0.0400           | 0.4116             |
| 0.0500         | 0.4288             | 0.0700           | 0.3713             |
| 0.1100         | 0.1870             | 0.1200           | 0.2077             |
| 0.1700         | 0.3395             | 0.1800           | 0.4268             |
| 0.2200         | 0.5017             | 0.2100           | 0.5755             |
| 0.2700         | 0.6457             | 0.2700           | 0.7219             |
| 0.3200         | 0.7665             | 0.3100           | 0.8261             |
| 0.3600         | 0.8596             | 0.3700           | 0.9099             |
| 0.4100         | 0.9291             | 0.4200           | 0.9606             |
| 0.5100         | 0.9895             | 0.5300           | 0.9984             |
| 0.7200         | 1.0043             | 0.7300           | 1.0070             |
| 0.9100         | 1.0017             | 0.9400           | 1.0076             |
| 1.1100         | 1.0025             | 1.1500           | 1.0038             |
| 1.3000         | 1.0030             | 1.3500           | 1.0009             |
| 1.5300         | 1.0021             | 1.5500           | 1.0066             |
| 1.7400         | 1.0015             | 1.7500           | 1.0060             |
| 1.9400         | 1.0020             | 1.9500           | 1.0046             |
| 2.1400         | 1.0009             | 2.1600           | 1.0018             |
| 2.3500         | 0.9982             | 2.3700           | 1.0006             |
| 2.5500         | 0.9944             | 2.5800           | 1.0020             |

Flight 13 Test point 28

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 35100. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 222.8 Rrho = 1953000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5360                     | 0.2253                      | 0.0645                  | none             |
| Outboard station rake | 0.5455                     | 0.2197                      | 0.0643                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4225             | 0.0400           | 0.3974             |
| 0.0500         | 0.3863             | 0.0700           | 0.3712             |
| 0.1100         | 0.1478             | 0.1200           | 0.2288             |
| 0.1700         | 0.4377             | 0.1800           | 0.4304             |
| 0.2200         | 0.5759             | 0.2100           | 0.5714             |
| 0.2700         | 0.7040             | 0.2700           | 0.7075             |
| 0.3200         | 0.8009             | 0.3100           | 0.8080             |
| 0.3600         | 0.8746             | 0.3700           | 0.8953             |
| 0.4100         | 0.9317             | 0.4200           | 0.9510             |
| 0.5100         | 0.9869             | 0.5300           | 0.9945             |
| 0.7200         | 1.0071             | 0.7300           | 1.0046             |
| 0.9100         | 1.0065             | 0.9400           | 1.0065             |
| 1.1100         | 1.0065             | 1.1500           | 1.0028             |
| 1.3000         | 1.0055             | 1.3500           | 0.9981             |
| 1.5300         | 1.0044             | 1.5500           | 1.0035             |
| 1.7400         | 1.0031             | 1.7500           | 1.0011             |
| 1.9400         | 0.9979             | 1.9500           | 1.0004             |
| 2.1400         | 0.9941             | 2.1600           | 0.9962             |
| 2.3500         | 0.9930             | 2.3700           | 0.9957             |
| 2.5500         | 0.9950             | 2.5800           | 0.9966             |

Flight 13 Test point 29

Sweep, deg = 30.4 Mach = 0.78 hp, ft = 34200. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 218.2 R<sub>npu</sub> = 1940000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7120                     | 0.2902                      | 0.0954                  | none             |
| Outboard station rake | 0.7221                     | 0.3242                      | 0.0874                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1933             | 0.0400           | 0.1630             |
| 0.0500         | 0.2184             | 0.0700           | 0.1311             |
| 0.1100         | 0.3191             | 0.1200           | 0.2070             |
| 0.1700         | 0.4214             | 0.1800           | 0.2591             |
| 0.2200         | 0.4990             | 0.2100           | 0.3169             |
| 0.2700         | 0.5751             | 0.2700           | 0.4355             |
| 0.3200         | 0.6407             | 0.3100           | 0.5349             |
| 0.3600         | 0.7086             | 0.3700           | 0.6400             |
| 0.4100         | 0.7723             | 0.4200           | 0.7466             |
| 0.5100         | 0.8773             | 0.5300           | 0.9211             |
| 0.7200         | 1.0044             | 0.7300           | 1.0029             |
| 0.9100         | 1.0045             | 0.9400           | 1.0048             |
| 1.1100         | 1.0065             | 1.1500           | 1.0015             |
| 1.3000         | 1.0044             | 1.3500           | 0.9985             |
| 1.5300         | 1.0037             | 1.5500           | 1.0043             |
| 1.7400         | 1.0053             | 1.7500           | 1.0022             |
| 1.9400         | 1.0039             | 1.9500           | 1.0041             |
| 2.1400         | 0.9970             | 2.1600           | 1.0004             |
| 2.3500         | 0.9867             | 2.3700           | 0.9924             |
| 2.5500         | 0.9880             | 2.5800           | 0.9891             |

Flight 13 Test point 30

Sweep, deg = 35.2 Mach = 0.82 hp, ft = 34900. Angle of attack, deg = 2.3  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 237.6 R<sub>npu</sub> = 2029000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9215                     | 0.3372                      | 0.1301                  | none             |
| Outboard station rake | 0.8652                     | 0.3171                      | 0.1140                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3190             | 0.0400           | 0.2751             |
| 0.0500         | 0.3242             | 0.0700           | 0.2940             |
| 0.1100         | 0.3502             | 0.1200           | 0.3491             |
| 0.1700         | 0.3956             | 0.1800           | 0.3905             |
| 0.2200         | 0.4365             | 0.2100           | 0.4225             |
| 0.2700         | 0.4949             | 0.2700           | 0.4984             |
| 0.3200         | 0.5459             | 0.3100           | 0.5632             |
| 0.3600         | 0.6045             | 0.3700           | 0.6220             |
| 0.4100         | 0.6583             | 0.4200           | 0.6908             |
| 0.5100         | 0.7590             | 0.5300           | 0.8257             |
| 0.7200         | 0.9362             | 0.7300           | 0.9919             |
| 0.9100         | 0.9967             | 0.9400           | 1.0040             |
| 1.1100         | 1.0023             | 1.1500           | 0.9977             |
| 1.3000         | 1.0006             | 1.3500           | 0.9960             |
| 1.5300         | 0.9979             | 1.5500           | 1.0022             |
| 1.7400         | 1.0014             | 1.7500           | 1.0009             |
| 1.9400         | 1.0007             | 1.9500           | 1.0044             |
| 2.1400         | 1.0012             | 2.1600           | 0.9991             |
| 2.3500         | 0.9999             | 2.3700           | 0.9978             |
| 2.5500         | 0.9993             | 2.5800           | 0.9979             |



Flight 13 Test point 31

Sweep, deg = 22.9 Mach = 0.80 hp, ft = 30000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 279.4 R<sub>npu</sub> = 2354000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6281                     | 0.2380                      | 0.0733                  | none             |
| Outboard station rake | 0.4523                     | 0.2061                      | 0.0577                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4673             | 0.0400           | 0.4906             |
| 0.0500         | 0.4206             | 0.0700           | 0.4426             |
| 0.1100         | 0.1773             | 0.1200           | 0.0889             |
| 0.1700         | 0.3607             | 0.1800           | 0.4184             |
| 0.2200         | 0.5017             | 0.2100           | 0.5841             |
| 0.2700         | 0.6238             | 0.2700           | 0.7274             |
| 0.3200         | 0.7257             | 0.3100           | 0.8359             |
| 0.3600         | 0.8124             | 0.3700           | 0.9231             |
| 0.4100         | 0.8927             | 0.4200           | 0.9709             |
| 0.5100         | 0.9940             | 0.5300           | 1.0011             |
| 0.7200         | 1.0040             | 0.7300           | 1.0060             |
| 0.9100         | 1.0034             | 0.9400           | 1.0069             |
| 1.1100         | 1.0054             | 1.1500           | 1.0035             |
| 1.3000         | 1.0043             | 1.3500           | 1.0012             |
| 1.5300         | 1.0023             | 1.5500           | 1.0052             |
| 1.7400         | 1.0031             | 1.7500           | 1.0038             |
| 1.9400         | 0.9970             | 1.9500           | 1.0024             |
| 2.1400         | 0.9944             | 2.1600           | 1.0004             |
| 2.3500         | 0.9936             | 2.3700           | 0.9997             |
| 2.5500         | 0.9928             | 2.5800           | 0.9989             |

Flight 13 Test point 32

Sweep, deg = 34.9 Mach = 0.80 hp, ft = 29900. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 282.2 Rrho = 2371000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9219                     | 0.2245                      | 0.1088                  | none             |
| Outboard station rake | 0.7272                     | 0.1841                      | 0.0871                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4931             | 0.0400           | 0.5052             |
| 0.0500         | 0.5144             | 0.0700           | 0.5409             |
| 0.1100         | 0.5636             | 0.1200           | 0.6016             |
| 0.1700         | 0.6094             | 0.1800           | 0.6517             |
| 0.2200         | 0.6397             | 0.2100           | 0.6831             |
| 0.2700         | 0.6781             | 0.2700           | 0.7367             |
| 0.3200         | 0.7130             | 0.3100           | 0.7828             |
| 0.3600         | 0.7542             | 0.3700           | 0.8280             |
| 0.4100         | 0.7890             | 0.4200           | 0.8725             |
| 0.5100         | 0.8645             | 0.5300           | 0.9495             |
| 0.7200         | 0.9833             | 0.7300           | 1.0006             |
| 0.9100         | 0.9991             | 0.9400           | 1.0029             |
| 1.1100         | 1.0037             | 1.1500           | 0.9971             |
| 1.3000         | 1.0016             | 1.3500           | 0.9936             |
| 1.5300         | 0.9972             | 1.5500           | 1.0015             |
| 1.7400         | 0.9996             | 1.7500           | 1.0009             |
| 1.9400         | 0.9990             | 1.9500           | 1.0019             |
| 2.1400         | 1.0004             | 2.1600           | 1.0006             |
| 2.3500         | 0.9986             | 2.3700           | 1.0005             |
| 2.5500         | 1.0008             | 2.5800           | 1.0004             |

Flight 13 Test point 33

Sweep, deg = 26.5 Mach = 0.80 hp, ft = 30000. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 281.3 R<sub>rho</sub> = 2365000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7197                     | 0.3046                      | 0.1020                  | none             |
| Outboard station rake | 0.4560                     | 0.2026                      | 0.0645                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1912             | 0.0400           | 0.4051             |
| 0.0500         | 0.2082             | 0.0700           | 0.2931             |
| 0.1100         | 0.2900             | 0.1200           | 0.3139             |
| 0.1700         | 0.3682             | 0.1800           | 0.4908             |
| 0.2200         | 0.4198             | 0.2100           | 0.6055             |
| 0.2700         | 0.4987             | 0.2700           | 0.7246             |
| 0.3200         | 0.5691             | 0.3100           | 0.8178             |
| 0.3600         | 0.6535             | 0.3700           | 0.9018             |
| 0.4100         | 0.7279             | 0.4200           | 0.9601             |
| 0.5100         | 0.8633             | 0.5300           | 1.0011             |
| 0.7200         | 1.0002             | 0.7300           | 1.0027             |
| 0.9100         | 1.0013             | 0.9400           | 1.0034             |
| 1.1100         | 1.0018             | 1.1500           | 0.9998             |
| 1.3000         | 1.0004             | 1.3500           | 0.9982             |
| 1.5300         | 0.9998             | 1.5500           | 1.0032             |
| 1.7400         | 1.0022             | 1.7500           | 1.0017             |
| 1.9400         | 1.0010             | 1.9500           | 0.9980             |
| 2.1400         | 0.9994             | 2.1600           | 0.9970             |
| 2.3500         | 0.9973             | 2.3700           | 0.9971             |
| 2.5500         | 0.9969             | 2.5800           | 0.9977             |

Flight 13 Test point 34

Sweep, deg = 22.1 Mach = 0.80 hp, ft = 25100. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 352.8 Rrho = 2836000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7056                     | 0.2594                      | 0.0845                  | none             |
| Outboard station rake | 0.5261                     | 0.2116                      | 0.0645                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.4800 | 0.0400           | 0.5227 |
| 0.0500         | 0.4324 | 0.0700           | 0.4517 |
| 0.1100         | 0.2367 | 0.1200           | 0.1164 |
| 0.1700         | 0.3126 | 0.1800           | 0.4315 |
| 0.2200         | 0.4712 | 0.2100           | 0.5386 |
| 0.2700         | 0.5855 | 0.2700           | 0.6795 |
| 0.3200         | 0.6793 | 0.3100           | 0.7966 |
| 0.3600         | 0.7644 | 0.3700           | 0.8967 |
| 0.4100         | 0.8405 | 0.4200           | 0.9609 |
| 0.5100         | 0.9517 | 0.5300           | 1.0013 |
| 0.7200         | 1.0031 | 0.7300           | 1.0031 |
| 0.9100         | 1.0012 | 0.9400           | 1.0033 |
| 1.1100         | 1.0032 | 1.1500           | 1.0005 |
| 1.3000         | 1.0021 | 1.3500           | 0.9984 |
| 1.5300         | 1.0011 | 1.5500           | 1.0015 |
| 1.7400         | 1.0027 | 1.7500           | 1.0012 |
| 1.9400         | 1.0015 | 1.9500           | 0.9994 |
| 2.1400         | 0.9965 | 2.1600           | 0.9977 |
| 2.3500         | 0.9945 | 2.3700           | 0.9968 |
| 2.5500         | 0.9941 | 2.5800           | 0.9966 |

Flight 13 Test point 35

Sweep, deg = 34.9 Mach = 0.80 hp, ft = 24900. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 356.6 Rrho = 2858000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9047                     | 0.2123                      | 0.1043                  | none             |
| Outboard station rake | 0.7271                     | 0.1814                      | 0.0856                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5000             | 0.0400           | 0.5022             |
| 0.0500         | 0.5263             | 0.0700           | 0.5396             |
| 0.1100         | 0.5750             | 0.1200           | 0.5999             |
| 0.1700         | 0.6255             | 0.1800           | 0.6486             |
| 0.2200         | 0.6602             | 0.2100           | 0.6870             |
| 0.2700         | 0.6974             | 0.2700           | 0.7434             |
| 0.3200         | 0.7339             | 0.3100           | 0.7922             |
| 0.3600         | 0.7710             | 0.3700           | 0.8362             |
| 0.4100         | 0.8092             | 0.4200           | 0.8810             |
| 0.5100         | 0.8788             | 0.5300           | 0.9520             |
| 0.7200         | 0.9870             | 0.7300           | 1.0006             |
| 0.9100         | 1.0003             | 0.9400           | 1.0021             |
| 1.1100         | 1.0015             | 1.1500           | 0.9980             |
| 1.3000         | 1.0008             | 1.3500           | 0.9951             |
| 1.5300         | 0.9967             | 1.5500           | 0.9990             |
| 1.7400         | 1.0003             | 1.7500           | 0.9990             |
| 1.9400         | 0.9989             | 1.9500           | 1.0023             |
| 2.1400         | 0.9993             | 2.1600           | 1.0011             |
| 2.3500         | 1.0014             | 2.3700           | 1.0015             |
| 2.5500         | 1.0008             | 2.5800           | 1.0012             |

Flight 13 Test point 36

Sweep, deg = 27.3 Mach = 0.80 hp, ft = 25800. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 341.9 R<sub>rho</sub> = 2766000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.8955                     | 0.2825                      | 0.1082                  | none             |
| Outboard station rake | 0.7194                     | 0.2808                      | 0.0817                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2451             | 0.0400           | 0.1475             |
| 0.0500         | 0.3010             | 0.0700           | 0.0218             |
| 0.1100         | 0.3709             | 0.1200           | 0.2797             |
| 0.1700         | 0.4450             | 0.1800           | 0.3893             |
| 0.2200         | 0.4988             | 0.2100           | 0.4719             |
| 0.2700         | 0.5607             | 0.2700           | 0.5754             |
| 0.3200         | 0.6206             | 0.3100           | 0.6639             |
| 0.3600         | 0.6832             | 0.3700           | 0.7488             |
| 0.4100         | 0.7438             | 0.4200           | 0.8240             |
| 0.5100         | 0.8546             | 0.5300           | 0.9421             |
| 0.7200         | 0.9942             | 0.7300           | 1.0029             |
| 0.9100         | 1.0004             | 0.9400           | 1.0034             |
| 1.1100         | 1.0016             | 1.1500           | 0.9988             |
| 1.3000         | 1.0007             | 1.3500           | 0.9966             |
| 1.5300         | 0.9991             | 1.5500           | 1.0022             |
| 1.7400         | 1.0002             | 1.7500           | 1.0016             |
| 1.9400         | 1.0000             | 1.9500           | 1.0020             |
| 2.1400         | 0.9994             | 2.1600           | 0.9983             |
| 2.3500         | 0.9997             | 2.3700           | 0.9978             |
| 2.5500         | 0.9990             | 2.5800           | 0.9965             |

Flight 13 Test point 37

Sweep, deg = 23.4 Mach = 0.80 hp, ft = 25100. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 352.0 R<sub>rho</sub> = 2832000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7180                     | 0.2726                      | 0.0874                  | none             |
| Outboard station rake | 0.5376                     | 0.2297                      | 0.0716                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3795             | 0.0400           | 0.5198             |
| 0.0500         | 0.3100             | 0.0700           | 0.4482             |
| 0.1100         | 0.1370             | 0.1200           | 0.1311             |
| 0.1700         | 0.3969             | 0.1800           | 0.3837             |
| 0.2200         | 0.5054             | 0.2100           | 0.5190             |
| 0.2700         | 0.6015             | 0.2700           | 0.6485             |
| 0.3200         | 0.6822             | 0.3100           | 0.7463             |
| 0.3600         | 0.7545             | 0.3700           | 0.8376             |
| 0.4100         | 0.8175             | 0.4200           | 0.9088             |
| 0.5100         | 0.9177             | 0.5300           | 0.9945             |
| 0.7200         | 1.0007             | 0.7300           | 1.0019             |
| 0.9100         | 1.0007             | 0.9400           | 1.0035             |
| 1.1100         | 1.0006             | 1.1500           | 1.0007             |
| 1.3000         | 0.9997             | 1.3500           | 0.9992             |
| 1.5300         | 0.9998             | 1.5500           | 1.0027             |
| 1.7400         | 1.0010             | 1.7500           | 1.0010             |
| 1.9400         | 1.0003             | 1.9500           | 1.0018             |
| 2.1400         | 1.0006             | 2.1600           | 0.9986             |
| 2.3500         | 0.9990             | 2.3700           | 0.9982             |
| 2.5500         | 0.9975             | 2.5800           | 0.9979             |

Flight 13 Test point 38

Sweep, deg = 20.8 Mach = 0.80 hp, ft = 24900. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 354.7 R<sub>rho</sub> = 2851000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6915                     | 0.2408                      | 0.0781                  | none             |
| Outboard station rake | 0.3813                     | 0.1642                      | 0.0554                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4976             | 0.0400           | 0.6984             |
| 0.0500         | 0.4515             | 0.0700           | 0.6686             |
| 0.1100         | 0.2550             | 0.1200           | 0.4555             |
| 0.1700         | 0.3188             | 0.1800           | 0.2226             |
| 0.2200         | 0.4809             | 0.2100           | 0.5495             |
| 0.2700         | 0.6041             | 0.2700           | 0.7630             |
| 0.3200         | 0.7139             | 0.3100           | 0.9103             |
| 0.3600         | 0.8048             | 0.3700           | 0.9864             |
| 0.4100         | 0.8806             | 0.4200           | 1.0021             |
| 0.5100         | 0.9817             | 0.5300           | 1.0032             |
| 0.7200         | 1.0025             | 0.7300           | 1.0052             |
| 0.9100         | 1.0024             | 0.9400           | 1.0052             |
| 1.1100         | 1.0031             | 1.1500           | 1.0013             |
| 1.3000         | 1.0015             | 1.3500           | 0.9981             |
| 1.5300         | 1.0003             | 1.5500           | 1.0005             |
| 1.7400         | 1.0009             | 1.7500           | 1.0004             |
| 1.9400         | 1.0009             | 1.9500           | 1.0002             |
| 2.1400         | 0.9972             | 2.1600           | 0.9994             |
| 2.3500         | 0.9949             | 2.3700           | 0.9985             |
| 2.5500         | 0.9963             | 2.5800           | 0.9994             |



Flight 13 Test point 39

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20200. Angle of attack, deg = -0.2  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 428.5 Rrho = 3326000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7188                     | 0.2718                      | 0.0933                  | none             |
| Outboard station rake | 0.6997                     | 0.2295                      | 0.0779                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.4829 | 0.0400           | 0.5949 |
| 0.0500         | 0.4378 | 0.0700           | 0.5505 |
| 0.1100         | 0.2451 | 0.1200           | 0.3520 |
| 0.1700         | 0.3028 | 0.1800           | 0.2146 |
| 0.2200         | 0.4574 | 0.2100           | 0.4370 |
| 0.2700         | 0.5633 | 0.2700           | 0.5957 |
| 0.3200         | 0.6548 | 0.3100           | 0.7112 |
| 0.3600         | 0.7319 | 0.3700           | 0.8150 |
| 0.4100         | 0.8008 | 0.4200           | 0.8970 |
| 0.5100         | 0.9153 | 0.5300           | 0.9926 |
| 0.7200         | 1.0004 | 0.7300           | 1.0011 |
| 0.9100         | 0.9999 | 0.9400           | 1.0017 |
| 1.1100         | 1.0007 | 1.1500           | 0.9994 |
| 1.3000         | 0.9993 | 1.3500           | 0.9979 |
| 1.5300         | 0.9998 | 1.5500           | 1.0017 |
| 1.7400         | 0.9998 | 1.7500           | 1.0004 |
| 1.9400         | 1.0003 | 1.9500           | 1.0015 |
| 2.1400         | 1.0010 | 2.1600           | 0.9994 |
| 2.3500         | 1.0001 | 2.3700           | 0.9939 |
| 2.5500         | 0.9987 | 2.5800           | 0.9980 |

Flight 13 Test point 40

Sweep, deg = 29.6 Mach = 0.80 hp, ft = 20300. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 433.3 R<sub>nu</sub> = 3344000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.8679                     | 0.2186                      | 0.1022                  | none             |
| Outboard station rake | 0.7199                     | 0.1867                      | 0.0833                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4475             | 0.0400           | 0.4243             |
| 0.0500         | 0.4796             | 0.0700           | 0.4901             |
| 0.1100         | 0.5339             | 0.1200           | 0.5632             |
| 0.1700         | 0.5941             | 0.1800           | 0.6201             |
| 0.2200         | 0.6318             | 0.2100           | 0.6638             |
| 0.2700         | 0.6771             | 0.2700           | 0.7253             |
| 0.3200         | 0.7177             | 0.3100           | 0.7825             |
| 0.3600         | 0.7620             | 0.3700           | 0.8369             |
| 0.4100         | 0.8070             | 0.4200           | 0.8882             |
| 0.5100         | 0.8919             | 0.5300           | 0.9729             |
| 0.7200         | 0.9970             | 0.7300           | 1.0012             |
| 0.9100         | 1.0008             | 0.9400           | 1.0020             |
| 1.1100         | 1.0020             | 1.1500           | 0.9997             |
| 1.3000         | 1.0004             | 1.3500           | 0.9973             |
| 1.5300         | 0.9984             | 1.5500           | 1.0014             |
| 1.7400         | 1.0001             | 1.7500           | 0.9988             |
| 1.9400         | 0.9993             | 1.9500           | 1.0008             |
| 2.1400         | 0.9992             | 2.1600           | 0.9989             |
| 2.3500         | 0.9992             | 2.3700           | 0.9994             |
| 2.5500         | 1.0007             | 2.5800           | 1.0005             |

Flight 13 Test point 41

Sweep, deg = 24.2 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 439.0 Rrho = 3379000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9043                     | 0.2850                      | 0.0956                  | none             |
| Outboard station rake | 0.7244                     | 0.2421                      | 0.0803                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2273             | 0.0400           | 0.4715             |
| 0.0500         | 0.0721             | 0.0700           | 0.3926             |
| 0.1100         | 0.2978             | 0.1200           | 0.1569             |
| 0.1700         | 0.4257             | 0.1800           | 0.4181             |
| 0.2200         | 0.5052             | 0.2100           | 0.5353             |
| 0.2700         | 0.5769             | 0.2700           | 0.6492             |
| 0.3200         | 0.6461             | 0.3100           | 0.7350             |
| 0.3600         | 0.7136             | 0.3700           | 0.8130             |
| 0.4100         | 0.7749             | 0.4200           | 0.8732             |
| 0.5100         | 0.8827             | 0.5300           | 0.9653             |
| 0.7200         | 0.9975             | 0.7300           | 1.0009             |
| 0.9100         | 1.0001             | 0.9400           | 1.0019             |
| 1.1100         | 1.0014             | 1.1500           | 1.0001             |
| 1.3000         | 1.0000             | 1.3500           | 0.9978             |
| 1.5300         | 0.9987             | 1.5500           | 1.0007             |
| 1.7400         | 1.0004             | 1.7500           | 1.0010             |
| 1.9400         | 0.9998             | 1.9500           | 1.0014             |
| 2.1400         | 0.9992             | 2.1600           | 0.9997             |
| 2.3500         | 1.0002             | 2.3700           | 0.9987             |
| 2.5500         | 1.0002             | 2.5800           | 0.9979             |

Flight 13 Test point 42

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20600. Angle of attack, deg = -0.2  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 426.6 R<sub>npu</sub> = 3305000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7206                     | 0.2701                      | 0.0940                  | none             |
| Outboard station rake | 0.6962                     | 0.2301                      | 0.0777                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5154             | 0.0400           | 0.5915             |
| 0.0500         | 0.4690             | 0.0700           | 0.5462             |
| 0.1100         | 0.2863             | 0.1200           | 0.3535             |
| 0.1700         | 0.2895             | 0.1800           | 0.2155             |
| 0.2200         | 0.4519             | 0.2100           | 0.4375             |
| 0.2700         | 0.5624             | 0.2700           | 0.5949             |
| 0.3200         | 0.5566             | 0.3100           | 0.7047             |
| 0.3600         | 0.7340             | 0.3700           | 0.8138             |
| 0.4100         | 0.8028             | 0.4200           | 0.8986             |
| 0.5100         | 0.9126             | 0.5300           | 0.9937             |
| 0.7200         | 0.9998             | 0.7300           | 1.0011             |
| 0.9100         | 0.9999             | 0.9400           | 1.0024             |
| 1.1100         | 1.0007             | 1.1500           | 0.9990             |
| 1.3000         | 1.0007             | 1.3500           | 0.9981             |
| 1.5300         | 0.9990             | 1.5500           | 1.0013             |
| 1.7400         | 1.0002             | 1.7500           | 1.0005             |
| 1.9400         | 0.9996             | 1.9500           | 1.0010             |
| 2.1400         | 1.0008             | 2.1600           | 0.9994             |
| 2.3500         | 1.0003             | 2.3700           | 0.9991             |
| 2.5500         | 0.9989             | 2.5800           | 0.9981             |

Flight 13 Test point 43

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20200. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 434.4 Rnpu = 3357000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7105                     | 0.2784                      | 0.0884                  | none             |
| Outboard station rake | 0.4314                     | 0.1777                      | 0.0575                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5016             | 0.0400           | 0.4965             |
| 0.0500         | 0.4767             | 0.0700           | 0.3901             |
| 0.1100         | 0.3363             | 0.1200           | 0.2772             |
| 0.1700         | 0.1721             | 0.1800           | 0.5212             |
| 0.2200         | 0.3918             | 0.2100           | 0.6591             |
| 0.2700         | 0.5281             | 0.2700           | 0.7861             |
| 0.3200         | 0.6363             | 0.3100           | 0.8892             |
| 0.3600         | 0.7218             | 0.3700           | 0.9664             |
| 0.4100         | 0.8009             | 0.4200           | 0.9941             |
| 0.5100         | 0.9294             | 0.5300           | 1.0024             |
| 0.7200         | 1.0030             | 0.7300           | 1.0040             |
| 0.9100         | 1.0023             | 0.9400           | 1.0053             |
| 1.1100         | 1.0029             | 1.1500           | 1.0012             |
| 1.3000         | 1.0023             | 1.3500           | 0.9994             |
| 1.5300         | 1.0007             | 1.5500           | 1.0031             |
| 1.7400         | 1.0018             | 1.7500           | 1.0012             |
| 1.9400         | 1.0036             | 1.9500           | 0.9983             |
| 2.1400         | 0.9973             | 2.1600           | 0.9967             |
| 2.3500         | 0.9941             | 2.3700           | 0.9968             |
| 2.5500         | 0.9921             | 2.5800           | 0.9974             |

Flight 13 Test point 44

Sweep, deg = 20.0 Mach = 0.8U hp, ft = 20200. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 436.2 Rnpu = 3364000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | 0.6965                        | 0.3318                         | 0.0786                     | none                |
| Outboard station rake | 0.4597                        | 0.1920                         | 0.0563                     | none                |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2110             | 0.0400           | 0.5190             |
| 0.0500         | 0.2008             | 0.0700           | 0.4530             |
| 0.1100         | 0.1050             | 0.1200           | 0.1508             |
| 0.1700         | 0.1569             | 0.1800           | 0.4829             |
| 0.2200         | 0.2681             | 0.2100           | 0.6455             |
| 0.2700         | 0.3843             | 0.2700           | 0.7838             |
| 0.3200         | 0.5030             | 0.3100           | 0.8733             |
| 0.3600         | 0.6173             | 0.3700           | 0.9372             |
| 0.4100         | 0.7349             | 0.4200           | 0.9734             |
| 0.5100         | 0.9262             | 0.5300           | 1.0019             |
| 0.7200         | 1.0082             | 0.7300           | 1.0077             |
| 0.9100         | 1.0079             | 0.9400           | 1.0079             |
| 1.1100         | 1.0079             | 1.1500           | 1.0057             |
| 1.3000         | 1.0058             | 1.3500           | 1.0039             |
| 1.5300         | 1.0035             | 1.5500           | 1.0062             |
| 1.7400         | 1.0045             | 1.7500           | 1.0034             |
| 1.9400         | 1.0021             | 1.9500           | 1.0034             |
| 2.1400         | 0.9899             | 2.1600           | 0.9980             |
| 2.3500         | 0.9858             | 2.3700           | 0.9959             |
| 2.5500         | 0.9845             | 2.5800           | 0.9955             |

Flight 13 Test point 45

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 439.4 Rrho = 3383000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.8779                     | 0.2820                      | 0.0985                  | none             |
| Outboard station rake | 0.7217                     | 0.2452                      | 0.0822                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.0689 | 0.0400           | 0.3625 |
| 0.0500         | 0.1862 | 0.0700           | 0.2693 |
| 0.1100         | 0.3395 | 0.1200           | 0.2534 |
| 0.1700         | 0.4403 | 0.1800           | 0.4300 |
| 0.2200         | 0.5067 | 0.2100           | 0.5322 |
| 0.2700         | 0.5785 | 0.2700           | 0.6429 |
| 0.3200         | 0.6437 | 0.3100           | 0.7279 |
| 0.3600         | 0.7095 | 0.3700           | 0.8058 |
| 0.4100         | 0.7740 | 0.4200           | 0.8703 |
| 0.5100         | 0.8763 | 0.5300           | 0.9630 |
| 0.7200         | 0.9967 | 0.7300           | 1.0014 |
| 0.9100         | 1.0006 | 0.9400           | 1.0017 |
| 1.1100         | 1.0020 | 1.1500           | 0.9987 |
| 1.3000         | 0.9999 | 1.3500           | 0.9978 |
| 1.5300         | 0.9989 | 1.5500           | 1.0006 |
| 1.7400         | 1.0003 | 1.7500           | 1.0005 |
| 1.9400         | 1.0003 | 1.9500           | 1.0017 |
| 2.1400         | 0.9992 | 2.1600           | 1.0003 |
| 2.3500         | 0.9995 | 2.3700           | 0.9990 |
| 2.5500         | 0.9993 | 2.5800           | 0.9982 |

Flight 13 Test point 46

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 20100. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 434.8 Rrho = 3358000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.8648                     | 0.3000                      | 0.0950                  | none             |
| Outboard station rake | 0.7224                     | 0.2367                      | 0.0803                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2443             | 0.0400           | 0.3992             |
| 0.0500         | 0.1965             | 0.0700           | 0.2858             |
| 0.1100         | 0.2054             | 0.1200           | 0.2940             |
| 0.1700         | 0.3725             | 0.1800           | 0.4683             |
| 0.2200         | 0.4598             | 0.2100           | 0.5704             |
| 0.2700         | 0.5491             | 0.2700           | 0.6687             |
| 0.3200         | 0.6286             | 0.3100           | 0.7472             |
| 0.3600         | 0.7020             | 0.3700           | 0.8195             |
| 0.4100         | 0.7672             | 0.4200           | 0.8787             |
| 0.5100         | 0.8771             | 0.5300           | 0.9684             |
| 0.7200         | 0.9969             | 0.7300           | 1.0011             |
| 0.9100         | 1.0009             | 0.9400           | 1.0015             |
| 1.1100         | 1.0017             | 1.1500           | 0.9999             |
| 1.3000         | 1.0011             | 1.3500           | 0.9982             |
| 1.5300         | 1.0000             | 1.5500           | 1.0012             |
| 1.7400         | 1.0014             | 1.7500           | 1.0009             |
| 1.9400         | 1.0003             | 1.9500           | 1.0015             |
| 2.1400         | 0.9997             | 2.1600           | 0.9999             |
| 2.3500         | 0.9991             | 2.3700           | 0.9985             |
| 2.5500         | 0.9959             | 2.5800           | 0.9974             |



Flight 13 Test point 47

Sweep, deg = 25.3 Mach = 0.81 hp, ft = 20200. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 438.3 Rrho = 3373000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7162                     | 0.2794                      | 0.0902                  | none             |
| Outboard station rake | 0.7102                     | 0.2777                      | 0.0815                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3588             | 0.0400           | 0.2329             |
| 0.0500         | 0.2950             | 0.0700           | 0.1491             |
| 0.1100         | 0.1979             | 0.1200           | 0.2350             |
| 0.1700         | 0.4131             | 0.1800           | 0.3641             |
| 0.2200         | 0.5131             | 0.2100           | 0.4613             |
| 0.2700         | 0.5994             | 0.2700           | 0.5759             |
| 0.3200         | 0.6792             | 0.3100           | 0.6680             |
| 0.3600         | 0.7452             | 0.3700           | 0.7602             |
| 0.4100         | 0.8046             | 0.4200           | 0.8365             |
| 0.5100         | 0.9009             | 0.5300           | 0.9514             |
| 0.7200         | 1.0016             | 0.7300           | 1.0047             |
| 0.9100         | 1.0042             | 0.9400           | 1.0054             |
| 1.1100         | 1.0049             | 1.1500           | 1.0022             |
| 1.3000         | 1.0036             | 1.3500           | 1.0013             |
| 1.5300         | 1.0025             | 1.5500           | 1.0026             |
| 1.7400         | 1.0034             | 1.7500           | 1.0031             |
| 1.9400         | 1.0027             | 1.9500           | 1.0034             |
| 2.1400         | 1.0000             | 2.1600           | 0.9947             |
| 2.3500         | 0.9898             | 2.3700           | 0.9937             |
| 2.5500         | 0.9889             | 2.5800           | 0.9889             |

Flight 14 Test point 1

Sweep, deg = 20.0 Mach = 0.60 hp, ft = 9900. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 367.1 Rnpu = 3519000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5491                     | 0.1389                      | 0.0698                  | 0.2 x/c          |
| Outboard station rake | 0.4780                     | 0.1413                      | 0.0614                  | c non            |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.3708 | 0.0400           | 0.2662 |
| 0.0500         | 0.5112 | 0.0700           | 0.4777 |
| 0.1100         | 0.6383 | 0.1200           | 0.6350 |
| 0.1700         | 0.7209 | 0.1800           | 0.7241 |
| 0.2200         | 0.7661 | 0.2100           | 0.7732 |
| 0.2700         | 0.8159 | 0.2700           | 0.8301 |
| 0.3200         | 0.8567 | 0.3100           | 0.8802 |
| 0.3600         | 0.8951 | 0.3700           | 0.9245 |
| 0.4100         | 0.9287 | 0.4200           | 0.9611 |
| 0.5100         | 0.9814 | 0.5300           | 0.9983 |
| 0.7200         | 1.0031 | 0.7300           | 1.0043 |
| 0.9100         | 1.0015 | 0.9400           | 1.0050 |
| 1.1100         | 1.0008 | 1.1500           | 1.0026 |
| 1.3000         | 1.0010 | 1.3500           | 0.9996 |
| 1.5300         | 1.0006 | 1.5500           | 1.0048 |
| 1.7400         | 1.0024 | 1.7500           | 1.0051 |
| 1.9400         | 1.0012 | 1.9500           | 1.0052 |
| 2.1400         | 1.0022 | 2.1600           | 1.0040 |
| 2.3500         | 1.0029 | 2.3700           | 1.0052 |
| 2.5500         | 1.0028 | 2.5800           | 1.0049 |

Flight 14 Test point 2

Sweep, deg = 20.1 Mach = 0.60 hp, ft = 9800. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 367.2 Rnpu = 3521000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | 0.5658                        | 0.1770                         | 0.0722                     | 0.2 x/c             |
| Outboard station rake | 0.3982                        | 0.1315                         | 0.0534                     | c non               |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4281             | 0.0400           | 0.5924             |
| 0.0500         | 0.0864             | 0.0700           | 0.3109             |
| 0.1100         | 0.5039             | 0.1200           | 0.4986             |
| 0.1700         | 0.6485             | 0.1800           | 0.6927             |
| 0.2200         | 0.7189             | 0.2100           | 0.7884             |
| 0.2700         | 0.7750             | 0.2700           | 0.8795             |
| 0.3200         | 0.8246             | 0.3100           | 0.9438             |
| 0.3600         | 0.8694             | 0.3700           | 0.9832             |
| 0.4100         | 0.9052             | 0.4200           | 0.9982             |
| 0.5100         | 0.9684             | 0.5300           | 0.9949             |
| 0.7200         | 1.0021             | 0.7300           | 1.0016             |
| 0.9100         | 1.0010             | 0.9400           | 1.0037             |
| 1.1100         | 1.0020             | 1.1500           | 1.0009             |
| 1.3000         | 1.0037             | 1.3500           | 0.9981             |
| 1.5300         | 1.0033             | 1.5500           | 1.0032             |
| 1.7400         | 1.0044             | 1.7500           | 1.0031             |
| 1.9400         | 1.0045             | 1.9500           | 1.0028             |
| 2.1400         | 1.0043             | 2.1600           | 1.0016             |
| 2.3500         | 1.0029             | 2.3700           | 1.0044             |
| 2.5500         | 1.0034             | 2.5800           | 1.0042             |

FIG. 14 Test point 3

Sweep, deg = 20.4 Mach = 0.60 hp, ft = 9900. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 367.4 Rnpu = 3521000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5469                     | 0.1377                      | 0.0697                  | 0.2 x/c          |
| Outboard station rake | 0.4786                     | 0.1371                      | 0.0618                  | c non            |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.3906 | 0.0400           | 0.3250 |
| 0.0500         | 0.5169 | 0.0700           | 0.5078 |
| 0.1100         | 0.6415 | 0.1200           | 0.6455 |
| 0.1700         | 0.7205 | 0.1800           | 0.7315 |
| 0.2200         | 0.7686 | 0.2100           | 0.7788 |
| 0.2700         | 0.8169 | 0.2700           | 0.8344 |
| 0.3200         | 0.8560 | 0.3100           | 0.8800 |
| 0.3600         | 0.8963 | 0.3700           | 0.9227 |
| 0.4100         | 0.9279 | 0.4200           | 0.9600 |
| 0.5100         | 0.9820 | 0.5300           | 0.9976 |
| 0.7200         | 1.0025 | 0.7300           | 1.0039 |
| 0.9100         | 1.0006 | 0.9400           | 1.0054 |
| 1.1100         | 1.0014 | 1.1500           | 1.0020 |
| 1.3000         | 1.0017 | 1.3500           | 1.0001 |
| 1.5300         | 1.0010 | 1.5500           | 1.0053 |
| 1.7400         | 1.0032 | 1.7500           | 1.0043 |
| 1.9400         | 1.0019 | 1.9500           | 1.0058 |
| 2.1400         | 1.0022 | 2.1600           | 1.0048 |
| 2.3500         | 1.0021 | 2.3700           | 1.0051 |
| 2.5500         | 1.0014 | 2.5800           | 1.0057 |

Flight 14 Test point 4

Sweep, deg = 20.1 Mach = 0.60 hp, ft = 9800. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 368.2 Rnpu = 3527000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7154                     | 0.1808                      | 0.0765                  | 0.2 x/c          |
| Outboard station rake | 0.3966                     | 0.1319                      | 0.0535                  | c non            |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4508             | 0.0400           | 0.5899             |
| 0.0500         | 0.1110             | 0.0700           | 0.3053             |
| 0.1100         | 0.4886             | 0.1200           | 0.5022             |
| 0.1700         | 0.6428             | 0.1800           | 0.6943             |
| 0.2200         | 0.7116             | 0.2100           | 0.7855             |
| 0.2700         | 0.7703             | 0.2700           | 0.8782             |
| 0.3200         | 0.8206             | 0.3100           | 0.9419             |
| 0.3600         | 0.8643             | 0.3700           | 0.9833             |
| 0.4100         | 0.8999             | 0.4200           | 0.9966             |
| 0.5100         | 0.9659             | 0.5300           | 0.9951             |
| 0.7200         | 1.0007             | 0.7300           | 1.0002             |
| 0.9100         | 0.9974             | 0.9400           | 1.0020             |
| 1.1100         | 0.9998             | 1.1500           | 1.0005             |
| 1.3000         | 1.0004             | 1.3500           | 0.9984             |
| 1.5300         | 0.9997             | 1.5500           | 1.0039             |
| 1.7400         | 1.0007             | 1.7500           | 1.0037             |
| 1.9400         | 1.0001             | 1.9500           | 1.0034             |
| 2.1400         | 1.0001             | 2.1600           | 1.0025             |
| 2.3500         | 0.9998             | 2.3700           | 1.0052             |
| 2.5500         | 1.0013             | 2.5800           | 1.0052             |

Flight 14 Test point 5

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 497.7 R<sub>npu</sub> = 4142000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5528                     | 0.1607                      | 0.0704                  | 0.2 x/c          |
| Outboard station rake | 0.4883                     | 0.1607                      | 0.0638                  | c non            |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1918             | 0.0400           | 0.2780             |
| 0.0500         | 0.4224             | 0.0700           | 0.3457             |
| 0.1100         | 0.5881             | 0.1200           | 0.5748             |
| 0.1700         | 0.6887             | 0.1800           | 0.6837             |
| 0.2200         | 0.7437             | 0.2100           | 0.7440             |
| 0.2700         | 0.7946             | 0.2700           | 0.8099             |
| 0.3200         | 0.8411             | 0.3100           | 0.8635             |
| 0.3600         | 0.8824             | 0.3700           | 0.9099             |
| 0.4100         | 0.9197             | 0.4200           | 0.9500             |
| 0.5100         | 0.9777             | 0.5300           | 0.9979             |
| 0.7200         | 1.0024             | 0.7300           | 1.0042             |
| 0.9100         | 1.0016             | 0.9400           | 1.0063             |
| 1.1100         | 1.0026             | 1.1500           | 1.0046             |
| 1.3000         | 1.0020             | 1.3500           | 1.0032             |
| 1.5300         | 1.0011             | 1.5500           | 1.0063             |
| 1.7400         | 1.0027             | 1.7500           | 1.0054             |
| 1.9400         | 1.0022             | 1.9500           | 1.0055             |
| 2.1400         | 1.0020             | 2.1600           | 1.0047             |
| 2.3500         | 1.0018             | 2.3700           | 1.0054             |
| 2.5500         | 1.0038             | 2.5800           | 1.0065             |

Flight 14 Test point 6

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 498.0 Rnpu = 4145000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5491                     | 0.1609                      | 0.0704                  | 0.2 x/c          |
| Outboard station rake | 0.4853                     | 0.1610                      | 0.0640                  | c non            |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.1844 | 0.0400           | 0.3271 |
| 0.0500         | 0.4214 | 0.0700           | 0.3115 |
| 0.1100         | 0.5916 | 0.1200           | 0.5634 |
| 0.1700         | 0.6875 | 0.1800           | 0.6820 |
| 0.2200         | 0.7439 | 0.2100           | 0.7406 |
| 0.2700         | 0.7950 | 0.2700           | 0.8070 |
| 0.3200         | 0.8410 | 0.3100           | 0.8618 |
| 0.3600         | 0.8806 | 0.3700           | 0.9123 |
| 0.4100         | 0.9174 | 0.4200           | 0.9523 |
| 0.5100         | 0.9784 | 0.5300           | 0.9994 |
| 0.7200         | 1.0019 | 0.7300           | 1.0050 |
| 0.9100         | 1.0019 | 0.9400           | 1.0062 |
| 1.1100         | 1.0022 | 1.1500           | 1.0035 |
| 1.3000         | 1.0019 | 1.3500           | 1.0023 |
| 1.5300         | 1.0011 | 1.5500           | 1.0056 |
| 1.7400         | 1.0021 | 1.7500           | 1.0049 |
| 1.9400         | 1.0018 | 1.9500           | 1.0059 |
| 2.1400         | 1.0022 | 2.1600           | 1.0047 |
| 2.3500         | 1.0025 | 2.3700           | 1.0052 |
| 2.5500         | 1.0039 | 2.5800           | 1.0051 |

Flight 14 Test point 7

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 10200. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 495.6 R<sub>npu</sub> = 4126000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7194                     | 0.1811                      | 0.0784                  | 0.2 x/c          |
| Outboard station rake | 0.4863                     | 0.1711                      | 0.0670                  | c non            |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1781             | 0.0400           | 0.5202             |
| 0.0500         | 0.3469             | 0.0700           | 0.2359             |
| 0.1100         | 0.5499             | 0.1200           | 0.4625             |
| 0.1700         | 0.6570             | 0.1800           | 0.6228             |
| 0.2200         | 0.7132             | 0.2100           | 0.7036             |
| 0.2700         | 0.7666             | 0.2700           | 0.7835             |
| 0.3200         | 0.8149             | 0.3100           | 0.8451             |
| 0.3600         | 0.8585             | 0.3700           | 0.9010             |
| 0.4100         | 0.8947             | 0.4200           | 0.9473             |
| 0.5100         | 0.9619             | 0.5300           | 0.9954             |
| 0.7200         | 1.0001             | 0.7300           | 1.0000             |
| 0.9100         | 0.9998             | 0.9400           | 1.0009             |
| 1.1100         | 1.0006             | 1.1500           | 0.9993             |
| 1.3000         | 1.0001             | 1.3500           | 0.9981             |
| 1.5300         | 0.9986             | 1.5500           | 1.0017             |
| 1.7400         | 1.0009             | 1.7500           | 1.0020             |
| 1.9400         | 1.0005             | 1.9500           | 1.0004             |
| 2.1400         | 0.9994             | 2.1600           | 1.0002             |
| 2.3500         | 0.9997             | 2.3700           | 1.0008             |
| 2.5500         | 1.0003             | 2.5800           | 1.0012             |



Flight 14 Test point 8

Sweep, deg = 25.5 Mach = 0.70 hp, ft = 10100. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 498.5 R<sub>pu</sub> = 4142000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7222                     | 0.1598                      | 0.0843                  | 0.2 x/c          |
| Outboard station rake | 0.5061                     | 0.1319                      | 0.0633                  | c non            |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5188             | 0.0400           | 0.5233             |
| 0.0500         | 0.5788             | 0.0700           | 0.5959             |
| 0.1100         | 0.6481             | 0.1200           | 0.6733             |
| 0.1700         | 0.7038             | 0.1800           | 0.7362             |
| 0.2200         | 0.7401             | 0.2100           | 0.7796             |
| 0.2700         | 0.7784             | 0.2700           | 0.8306             |
| 0.3200         | 0.8144             | 0.3100           | 0.8738             |
| 0.3600         | 0.8471             | 0.3700           | 0.9127             |
| 0.4100         | 0.8777             | 0.4200           | 0.9471             |
| 0.5100         | 0.9364             | 0.5300           | 0.9921             |
| 0.7200         | 0.9994             | 0.7300           | 1.0009             |
| 0.9100         | 1.0002             | 0.9400           | 1.0018             |
| 1.1100         | 1.0000             | 1.1500           | 0.9994             |
| 1.3000         | 1.0001             | 1.3500           | 0.9971             |
| 1.5300         | 0.9976             | 1.5500           | 1.0017             |
| 1.7400         | 1.0005             | 1.7500           | 1.0011             |
| 1.9400         | 1.0008             | 1.9500           | 1.0027             |
| 2.1400         | 1.0000             | 2.1600           | 1.0003             |
| 2.3500         | 1.0006             | 2.3700           | 1.0017             |
| 2.5500         | 1.0009             | 2.5800           | 1.0012             |

Flight 14 Test point 9

Sweep, deg = 25.4 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 497.1 Rrho = 4139000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7244                     | 0.1624                      | 0.0854                  | 0.2 x/c          |
| Outboard station rake | 0.5086                     | 0.1364                      | 0.0650                  | corn             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5169 | 0.0400           | 0.5044 |
| 0.0500         | 0.5727 | 0.0700           | 0.5837 |
| 0.1100         | 0.6445 | 0.1200           | 0.6642 |
| 0.1700         | 0.6999 | 0.1800           | 0.7291 |
| 0.2200         | 0.7364 | 0.2100           | 0.7724 |
| 0.2700         | 0.7750 | 0.2700           | 0.8204 |
| 0.3200         | 0.8109 | 0.3100           | 0.8643 |
| 0.3600         | 0.8441 | 0.3700           | 0.9064 |
| 0.4100         | 0.8744 | 0.4200           | 0.9426 |
| 0.5100         | 0.9333 | 0.5300           | 0.9912 |
| 0.7200         | 0.9988 | 0.7300           | 1.0012 |
| 0.9100         | 0.9996 | 0.9400           | 1.0013 |
| 1.1100         | 1.0004 | 1.1500           | 0.9994 |
| 1.3000         | 1.0001 | 1.3500           | 0.9985 |
| 1.5300         | 0.9982 | 1.5500           | 1.0013 |
| 1.7400         | 1.0015 | 1.7500           | 1.0013 |
| 1.9400         | 1.0004 | 1.9500           | 1.0016 |
| 2.1400         | 1.0005 | 2.1600           | 1.0014 |
| 2.3500         | 0.9997 | 2.3700           | 1.0009 |
| 2.5500         | 1.0009 | 2.5800           | 1.0019 |

Flight 14 Test point 10

Sweep, deg = 25.4 Mach = 0.70 hp, ft = 10100. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 496.1 Rnpu = 4131000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7270                     | 0.1697                      | 0.0881                  | 0.2 x/c          |
| Outboard station rake | 0.5767                     | 0.1518                      | 0.0723                  | c non            |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.4942 | 0.0400           | 0.4647 |
| 0.0500         | 0.5595 | 0.0700           | 0.5573 |
| 0.1100         | 0.6299 | 0.1200           | 0.6401 |
| 0.1700         | 0.6865 | 0.1800           | 0.7062 |
| 0.2200         | 0.7250 | 0.2100           | 0.7489 |
| 0.2700         | 0.7646 | 0.2700           | 0.7993 |
| 0.3200         | 0.7983 | 0.3100           | 0.8411 |
| 0.3600         | 0.8333 | 0.3700           | 0.8821 |
| 0.4100         | 0.8655 | 0.4200           | 0.9187 |
| 0.5100         | 0.9285 | 0.5300           | 0.9777 |
| 0.7200         | 0.9980 | 0.7300           | 1.0026 |
| 0.9100         | 0.9996 | 0.9400           | 1.0040 |
| 1.1100         | 1.0007 | 1.1500           | 1.0008 |
| 1.3000         | 1.0004 | 1.3500           | 0.9996 |
| 1.5300         | 0.9984 | 1.5500           | 1.0026 |
| 1.7400         | 1.0006 | 1.7500           | 1.0025 |
| 1.9400         | 1.0010 | 1.9500           | 1.0033 |
| 2.1400         | 0.9999 | 2.1600           | 1.0016 |
| 2.3500         | 1.0006 | 2.3700           | 1.0031 |
| 2.5500         | 1.0008 | 2.5800           | 1.0022 |

Flight 14 Test point 11

Sweep, deg = 30.1 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 498.9 Rnpu = 4149000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7293                     | 0.1519                      | 0.0825                  | 0.2 x/c          |
| Outboard station rake | 0.5174                     | 0.1248                      | 0.0622                  | c non            |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5827 | 0.0400           | 0.6011 |
| 0.0500         | 0.6144 | 0.0700           | 0.6411 |
| 0.1100         | 0.6591 | 0.1200           | 0.6982 |
| 0.1700         | 0.7191 | 0.1800           | 0.7483 |
| 0.2200         | 0.7534 | 0.2100           | 0.7884 |
| 0.2700         | 0.7879 | 0.2700           | 0.8371 |
| 0.3200         | 0.8206 | 0.3100           | 0.8749 |
| 0.3600         | 0.8532 | 0.3700           | 0.9126 |
| 0.4100         | 0.8814 | 0.4200           | 0.9447 |
| 0.5100         | 0.9374 | 0.5300           | 0.9901 |
| 0.7200         | 0.9977 | 0.7300           | 1.0017 |
| 0.9100         | 1.0003 | 0.9400           | 1.0019 |
| 1.1100         | 1.0010 | 1.1500           | 0.9998 |
| 1.3000         | 1.0003 | 1.3500           | 0.9982 |
| 1.5300         | 0.9971 | 1.5500           | 1.0011 |
| 1.7400         | 1.0008 | 1.7500           | 1.0013 |
| 1.9400         | 1.0002 | 1.9500           | 1.0025 |
| 2.1400         | 1.0008 | 2.1600           | 1.0004 |
| 2.3500         | 1.0007 | 2.3700           | 1.0019 |
| 2.5500         | 1.0012 | 2.5800           | 1.0011 |

Flight 14 Test point 12

Sweep, deg = 30.1 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 502.0 Rrho = 4163000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7277                     | 0.1548                      | 0.0837                  | 0.2 x/c          |
| Outboard station rake | 0.5528                     | 0.1266                      | 0.0638                  | c non            |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5780 | 0.0400           | 0.5971 |
| 0.0500         | 0.6099 | 0.0700           | 0.6385 |
| 0.1100         | 0.6640 | 0.1200           | 0.6943 |
| 0.1700         | 0.7108 | 0.1800           | 0.7456 |
| 0.2200         | 0.7489 | 0.2100           | 0.7866 |
| 0.2700         | 0.7864 | 0.2700           | 0.8340 |
| 0.3200         | 0.8175 | 0.3100           | 0.8737 |
| 0.3600         | 0.8482 | 0.3700           | 0.9111 |
| 0.4100         | 0.8785 | 0.4200           | 0.9411 |
| 0.5100         | 0.9343 | 0.5300           | 0.9896 |
| 0.7200         | 0.9980 | 0.7300           | 1.0019 |
| 0.9100         | 1.0010 | 0.9400           | 1.0021 |
| 1.1100         | 1.0012 | 1.1500           | 0.9998 |
| 1.3000         | 1.0007 | 1.3500           | 0.9985 |
| 1.5300         | 0.9966 | 1.5500           | 1.0014 |
| 1.7400         | 1.0014 | 1.7500           | 1.0008 |
| 1.9400         | 1.0003 | 1.9500           | 1.0022 |
| 2.1400         | 1.0000 | 2.1600           | 0.9998 |
| 2.3500         | 1.0005 | 2.3700           | 1.0021 |
| 2.5500         | 1.0004 | 2.5800           | 1.0019 |

Flight 14 Test point 13

Sweep, deg = 30.1 Mach = 0.70 hp, ft = 10100. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 503.5 Rrho = 4165000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7335                     | 0.1620                      | 0.0869                  | 0.2 x/c          |
| Outboard station rake | 0.5710                     | 0.1357                      | 0.0680                  | c non            |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5694             | 0.0400           | 0.5824             |
| 0.0500         | 0.6019             | 0.0700           | 0.6216             |
| 0.1100         | 0.6564             | 0.1200           | 0.6809             |
| 0.1700         | 0.7040             | 0.1800           | 0.7317             |
| 0.2200         | 0.7381             | 0.2100           | 0.7713             |
| 0.2700         | 0.7745             | 0.2700           | 0.8183             |
| 0.3200         | 0.8054             | 0.3100           | 0.8568             |
| 0.3600         | 0.8396             | 0.3700           | 0.8953             |
| 0.4100         | 0.8685             | 0.4200           | 0.9284             |
| 0.5100         | 0.9249             | 0.5300           | 0.9821             |
| 0.7200         | 0.9960             | 0.7300           | 1.0028             |
| 0.9100         | 0.9999             | 0.9400           | 1.0027             |
| 1.1100         | 1.0005             | 1.1500           | 1.0007             |
| 1.3000         | 1.0003             | 1.3500           | 0.9993             |
| 1.5300         | 0.9984             | 1.5500           | 1.0018             |
| 1.7400         | 1.0008             | 1.7500           | 1.0021             |
| 1.9400         | 1.0009             | 1.9500           | 1.0031             |
| 2.1400         | 1.0005             | 2.1600           | 1.0011             |
| 2.3500         | 1.0011             | 2.3700           | 1.0019             |
| 2.5500         | 1.0018             | 2.5800           | 1.0023             |

Flight 14 Test point 14

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 503.1 Rnpu = 4169000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7337                     | 0.1534                      | 0.0840                  | 0.2 x/c          |
| Outboard station rake | 0.5590                     | 0.1236                      | 0.0631                  | c non            |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5894             | 0.0400           | 0.6161             |
| 0.0500         | 0.6193             | 0.0700           | 0.6458             |
| 0.1100         | 0.6693             | 0.1200           | 0.7045             |
| 0.1700         | 0.7187             | 0.1800           | 0.7558             |
| 0.2200         | 0.7528             | 0.2100           | 0.7932             |
| 0.2700         | 0.7880             | 0.2700           | 0.8378             |
| 0.3200         | 0.8189             | 0.3100           | 0.8759             |
| 0.3600         | 0.8505             | 0.3700           | 0.9104             |
| 0.4100         | 0.8771             | 0.4200           | 0.9419             |
| 0.5100         | 0.9305             | 0.5300           | 0.9867             |
| 0.7200         | 0.9963             | 0.7300           | 1.0024             |
| 0.9100         | 1.0001             | 0.9400           | 1.0025             |
| 1.1100         | 1.0012             | 1.1500           | 1.0006             |
| 1.3000         | 1.0004             | 1.3500           | 0.9985             |
| 1.5300         | 0.9960             | 1.5500           | 1.0011             |
| 1.7400         | 1.0015             | 1.7500           | 1.0009             |
| 1.9400         | 1.0005             | 1.9500           | 1.0029             |
| 2.1400         | 1.0004             | 2.1600           | 1.0006             |
| 2.3500         | 1.0016             | 2.3700           | 1.0019             |
| 2.5500         | 1.0021             | 2.5800           | 1.0020             |

Flight 14 Test point 15

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 10100. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 496.4 R<sub>npu</sub> = 4136000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7416                     | 0.1619                      | 0.0881                  | 0.2 x/c          |
| Outboard station rake | 0.5825                     | 0.1307                      | 0.0668                  | c non            |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5773             | 0.0400           | 0.6096             |
| 0.0500         | 0.6056             | 0.0700           | 0.6398             |
| 0.1100         | 0.6571             | 0.1200           | 0.6947             |
| 0.1700         | 0.7051             | 0.1800           | 0.7435             |
| 0.2200         | 0.7409             | 0.2100           | 0.7845             |
| 0.2700         | 0.7763             | 0.2700           | 0.8266             |
| 0.3200         | 0.8086             | 0.3100           | 0.8631             |
| 0.3600         | 0.8392             | 0.3700           | 0.8983             |
| 0.4100         | 0.8659             | 0.4200           | 0.9296             |
| 0.5100         | 0.9195             | 0.5300           | 0.9791             |
| 0.7200         | 0.9934             | 0.7300           | 1.0024             |
| 0.9100         | 1.0001             | 0.9400           | 1.0037             |
| 1.1100         | 1.0020             | 1.1500           | 1.0013             |
| 1.3000         | 1.0015             | 1.3500           | 0.9987             |
| 1.5300         | 0.9968             | 1.5500           | 1.0026             |
| 1.7400         | 1.0013             | 1.7500           | 1.0017             |
| 1.9400         | 1.0008             | 1.9500           | 1.0035             |
| 2.1400         | 1.0012             | 2.1600           | 1.0016             |
| 2.3500         | 1.0008             | 2.3700           | 1.0022             |
| 2.5500         | 1.0021             | 2.5800           | 1.0033             |



Flight 14 Test point 16

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 9900. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 500.8 Rnpu = 4161000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7306                     | 0.1515                      | 0.0832                  | 0.2 x/c          |
| Outboard station rake | 0.5550                     | 0.1224                      | 0.0626                  | c non            |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5883 | 0.0400           | 0.6172 |
| 0.0500         | 0.6185 | 0.0700           | 0.6489 |
| 0.1100         | 0.6745 | 0.1200           | 0.7059 |
| 0.1700         | 0.7235 | 0.1800           | 0.7548 |
| 0.2200         | 0.7572 | 0.2100           | 0.7957 |
| 0.2700         | 0.7910 | 0.2700           | 0.8406 |
| 0.3200         | 0.8221 | 0.3100           | 0.8776 |
| 0.3600         | 0.8517 | 0.3700           | 0.9129 |
| 0.4100         | 0.8803 | 0.4200           | 0.9430 |
| 0.5100         | 0.9314 | 0.5300           | 0.9888 |
| 0.7200         | 0.9971 | 0.7300           | 1.0009 |
| 0.9100         | 0.9994 | 0.9400           | 1.0027 |
| 1.1100         | 1.0022 | 1.1500           | 1.0001 |
| 1.3000         | 1.0008 | 1.3500           | 0.9982 |
| 1.5300         | 0.9952 | 1.5500           | 1.0013 |
| 1.7400         | 1.0016 | 1.7500           | 1.0012 |
| 1.9400         | 1.0001 | 1.9500           | 1.0021 |
| 2.1400         | 1.0006 | 2.1600           | 1.0008 |
| 2.3500         | 1.0006 | 2.3700           | 1.0020 |
| 2.5500         | 1.0023 | 2.5800           | 1.0018 |

Flight 14 Test point 17

Sweep, deg = 24.1 Mach = 0.70 hp, ft = 10100. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 500.1 R<sub>npu</sub> = 4150000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7234                     | 0.1633                      | 0.0844                  | 0.2 x/c          |
| Outboard station rake | 0.4991                     | 0.1413                      | 0.0649                  | c non            |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4757             | 0.0400           | 0.4349             |
| 0.0500         | 0.5503             | 0.0700           | 0.5424             |
| 0.1100         | 0.6353             | 0.1200           | 0.6448             |
| 0.1700         | 0.6939             | 0.1800           | 0.7178             |
| 0.2200         | 0.7354             | 0.2100           | 0.7663             |
| 0.2700         | 0.7757             | 0.2700           | 0.8205             |
| 0.3200         | 0.8129             | 0.3100           | 0.8661             |
| 0.3600         | 0.8475             | 0.3700           | 0.9092             |
| 0.4100         | 0.8730             | 0.4200           | 0.9466             |
| 0.5100         | 0.9399             | 0.5300           | 0.9925             |
| 0.7200         | 0.9992             | 0.7300           | 1.0009             |
| 0.9100         | 0.9995             | 0.9400           | 1.0025             |
| 1.1100         | 1.0008             | 1.1500           | 0.9997             |
| 1.3000         | 0.9997             | 1.3500           | 0.9985             |
| 1.5300         | 0.9991             | 1.5500           | 1.0017             |
| 1.7400         | 1.0011             | 1.7500           | 1.0011             |
| 1.9400         | 1.0003             | 1.9500           | 1.0007             |
| 2.1400         | 0.9998             | 2.1600           | 0.9998             |
| 2.3500         | 1.0001             | 2.3700           | 1.0013             |
| 2.5500         | 1.0004             | 2.5800           | 1.0012             |

Flight 14 Test point 18

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 10100. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 494.6 Rnpu = 4124000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5503                     | 0.1622                      | 0.0702                  | 0.2 x/c          |
| Outboard station rake | 0.4796                     | 0.1579                      | 0.0621                  | c non            |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.1515 | 0.0400           | 0.2462 |
| 0.0500         | 0.4145 | 0.0700           | 0.3641 |
| 0.1100         | 0.5898 | 0.1200           | 0.5818 |
| 0.1700         | 0.6906 | 0.1800           | 0.6902 |
| 0.2200         | 0.7430 | 0.2100           | 0.7512 |
| 0.2700         | 0.7941 | 0.2700           | 0.8172 |
| 0.3200         | 0.8395 | 0.3100           | 0.8678 |
| 0.3600         | 0.8798 | 0.3700           | 0.9168 |
| 0.4100         | 0.9149 | 0.4200           | 0.9565 |
| 0.5100         | 0.9773 | 0.5300           | 0.9999 |
| 0.7200         | 1.0023 | 0.7300           | 1.0042 |
| 0.9100         | 1.0016 | 0.9400           | 1.0048 |
| 1.1100         | 1.0027 | 1.1500           | 1.0036 |
| 1.3000         | 1.0027 | 1.3500           | 1.0023 |
| 1.5300         | 1.0011 | 1.5500           | 1.0050 |
| 1.7400         | 1.0033 | 1.7500           | 1.0050 |
| 1.9400         | 1.0015 | 1.9500           | 1.0051 |
| 2.1400         | 1.0021 | 2.1600           | 1.0034 |
| 2.3500         | 1.0026 | 2.3700           | 1.0055 |
| 2.5500         | 1.0030 | 2.5800           | 1.0046 |

Flight 14 Test point 19

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 499.0 Rnpu = 4147000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7255                     | 0.2025                      | 0.0904                  | 0.2 x/c          |
| Outboard station rake | 0.3880                     | 0.1340                      | 0.0484                  | c non            |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5745             | 0.0400           | 0.8168             |
| 0.0500         | 0.3503             | 0.0700           | 0.6298             |
| 0.1100         | 0.3849             | 0.1200           | 0.2186             |
| 0.1700         | 0.5836             | 0.1800           | 0.6074             |
| 0.2200         | 0.6661             | 0.2100           | 0.7516             |
| 0.2700         | 0.7251             | 0.2700           | 0.8675             |
| 0.3200         | 0.7787             | 0.3100           | 0.9436             |
| 0.3600         | 0.8245             | 0.3700           | 0.9878             |
| 0.4100         | 0.8601             | 0.4200           | 0.9970             |
| 0.5100         | 0.9310             | 0.5300           | 0.9963             |
| 0.7200         | 0.9984             | 0.7300           | 0.9996             |
| 0.9100         | 0.9995             | 0.9400           | 1.0026             |
| 1.1100         | 1.0000             | 1.1500           | 1.0007             |
| 1.3000         | 1.0003             | 1.3500           | 0.9993             |
| 1.5300         | 0.9995             | 1.5500           | 1.0025             |
| 1.7400         | 1.0012             | 1.7500           | 1.0035             |
| 1.9400         | 1.0005             | 1.9500           | 1.0028             |
| 2.1400         | 0.9992             | 2.1600           | 1.0013             |
| 2.3500         | 1.0001             | 2.3700           | 1.0034             |
| 2.5500         | 1.0013             | 2.5800           | 1.0032             |

Flight 14 Test point 20

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 20100. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 332.1 Rrho = 2937000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7133                     | 0.1798                      | 0.0779                  | 0.2 x/c          |
| Outboard station rake | 0.5451                     | 0.1767                      | 0.0676                  | c non            |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2120             | 0.0400           | 0.4847             |
| 0.0500         | 0.3322             | 0.0700           | 0.1521             |
| 0.1100         | 0.5431             | 0.1200           | 0.4797             |
| 0.1700         | 0.6531             | 0.1800           | 0.6289             |
| 0.2200         | 0.7118             | 0.2100           | 0.7030             |
| 0.2700         | 0.7685             | 0.2700           | 0.7793             |
| 0.3200         | 0.8153             | 0.3100           | 0.8407             |
| 0.3600         | 0.8594             | 0.3700           | 0.8952             |
| 0.4100         | 0.8995             | 0.4200           | 0.9409             |
| 0.5100         | 0.9657             | 0.5300           | 0.9934             |
| 0.7200         | 1.0010             | 0.7300           | 1.0006             |
| 0.9100         | 0.9987             | 0.9400           | 1.0024             |
| 1.1100         | 0.9992             | 1.1500           | 0.9989             |
| 1.3000         | 1.0003             | 1.3500           | 0.9966             |
| 1.5300         | 0.9997             | 1.5500           | 1.0003             |
| 1.7400         | 1.0009             | 1.7500           | 1.0009             |
| 1.9400         | 1.0003             | 1.9500           | 1.0031             |
| 2.1400         | 1.0005             | 2.1600           | 1.0001             |
| 2.3500         | 0.9991             | 2.3700           | 1.0012             |
| 2.5500         | 1.0003             | 2.5800           | 1.0023             |

Flight 14 Test point 21

Sweep, deg = 20.0 Mach = 0.71 hp, ft = 20700. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 327.5 R<sub>rho</sub> = 2894000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7161                     | 0.1796                      | 0.0773                  | 0.2 x/c          |
| Outboard station rake | 0.4754                     | 0.1698                      | 0.0620                  | c non            |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1983             | 0.0400           | 0.4826             |
| 0.0500         | 0.3331             | 0.0700           | 0.1120             |
| 0.1100         | 0.5441             | 0.1200           | 0.4992             |
| 0.1700         | 0.6556             | 0.1800           | 0.6498             |
| 0.2200         | 0.7145             | 0.2100           | 0.7209             |
| 0.2700         | 0.7683             | 0.2700           | 0.7969             |
| 0.3200         | 0.8142             | 0.3100           | 0.8557             |
| 0.3600         | 0.8609             | 0.3700           | 0.9093             |
| 0.4100         | 0.8993             | 0.4200           | 0.9570             |
| 0.5100         | 0.9682             | 0.5300           | 1.0003             |
| 0.7200         | 1.0005             | 0.7300           | 1.0040             |
| 0.9100         | 0.9993             | 0.9400           | 1.0064             |
| 1.1100         | 0.9995             | 1.1500           | 1.0028             |
| 1.3000         | 1.0009             | 1.3500           | 0.9999             |
| 1.5300         | 0.9988             | 1.5500           | 1.0051             |
| 1.7400         | 1.0021             | 1.7500           | 1.0038             |
| 1.9400         | 0.9993             | 1.9500           | 1.0060             |
| 2.1400         | 0.9997             | 2.1600           | 1.0043             |
| 2.3500         | 0.9999             | 2.3700           | 1.0044             |
| 2.5500         | 1.0000             | 2.5800           | 1.0060             |

Flight 14 Test point 22

Sweep, deg = 20.0 Mach = 0.71 hp, ft = 20000. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 339.4 Rnpu = 2977000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7194                     | 0.1894                      | 0.0815                  | 0.2 x/c          |
| Outboard station rake | 0.5430                     | 0.1764                      | 0.0725                  | c non            |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.2928 | 0.0400           | 0.5817 |
| 0.0500         | 0.2761 | 0.0700           | 0.3487 |
| 0.1100         | 0.5168 | 0.1200           | 0.4022 |
| 0.1700         | 0.6361 | 0.1800           | 0.5925 |
| 0.2200         | 0.6951 | 0.2100           | 0.6753 |
| 0.2700         | 0.7508 | 0.2700           | 0.7600 |
| 0.3200         | 0.7998 | 0.3100           | 0.8288 |
| 0.3600         | 0.8455 | 0.3700           | 0.8868 |
| 0.4100         | 0.8847 | 0.4200           | 0.9356 |
| 0.5100         | 0.9580 | 0.5300           | 0.9937 |
| 0.7200         | 1.0001 | 0.7300           | 1.0002 |
| 0.9100         | 0.9992 | 0.9400           | 1.0019 |
| 1.1100         | 1.0002 | 1.1500           | 0.9988 |
| 1.3000         | 1.0004 | 1.3500           | 0.9969 |
| 1.5300         | 0.9992 | 1.5500           | 1.0015 |
| 1.7400         | 1.0004 | 1.7500           | 1.0007 |
| 1.9400         | 1.0002 | 1.9500           | 1.0013 |
| 2.1400         | 0.9998 | 2.1600           | 1.0005 |
| 2.3500         | 0.9997 | 2.3700           | 1.0014 |
| 2.5500         | 1.0008 | 2.5800           | 1.0031 |

Flight 14 Test point 23

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 335.8 Rrho = 2958000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5542                     | 0.1440                      | 0.0720                  | 0.2 x/c          |
| Outboard station rake | 0.4817                     | 0.1347                      | 0.0619                  | c non            |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.4915 | 0.0400           | 0.4600 |
| 0.0500         | 0.5547 | 0.0700           | 0.5583 |
| 0.1100         | 0.6407 | 0.1200           | 0.6536 |
| 0.1700         | 0.7061 | 0.1800           | 0.7267 |
| 0.2200         | 0.7507 | 0.2100           | 0.7743 |
| 0.2700         | 0.7992 | 0.2700           | 0.8340 |
| 0.3200         | 0.8413 | 0.3100           | 0.8810 |
| 0.3600         | 0.8819 | 0.3700           | 0.9229 |
| 0.4100         | 0.9182 | 0.4200           | 0.9591 |
| 0.5100         | 0.9767 | 0.5300           | 0.9990 |
| 0.7200         | 1.0028 | 0.7300           | 1.0043 |
| 0.9100         | 1.0011 | 0.9400           | 1.0063 |
| 1.1100         | 1.0026 | 1.1500           | 1.0027 |
| 1.3000         | 1.0026 | 1.3500           | 1.0014 |
| 1.5300         | 1.0012 | 1.5500           | 1.0045 |
| 1.7400         | 1.0031 | 1.7500           | 1.0045 |
| 1.9400         | 1.0029 | 1.9500           | 1.0049 |
| 2.1400         | 1.0019 | 2.1600           | 1.0031 |
| 2.3500         | 1.0019 | 2.3700           | 1.0045 |
| 2.5500         | 1.0030 | 2.5800           | 1.0057 |



Flight 14 Test point 24

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 337.3 Rnpu = 2968000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5601                     | 0.1490                      | 0.0736                  | 0.2 x/c          |
| Outboard station rake | 0.5026                     | 0.1451                      | 0.0660                  | c non            |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.4757 | 0.0400           | 0.4287 |
| 0.0500         | 0.5430 | 0.0700           | 0.5372 |
| 0.1100         | 0.6282 | 0.1200           | 0.6373 |
| 0.1700         | 0.6971 | 0.1800           | 0.7083 |
| 0.2200         | 0.7398 | 0.2100           | 0.7570 |
| 0.2700         | 0.7927 | 0.2700           | 0.8150 |
| 0.3200         | 0.8333 | 0.3100           | 0.8617 |
| 0.3600         | 0.8755 | 0.3700           | 0.9037 |
| 0.4100         | 0.9140 | 0.4200           | 0.9426 |
| 0.5100         | 0.9734 | 0.5300           | 0.9911 |
| 0.7200         | 1.0040 | 0.7300           | 1.0006 |
| 0.9100         | 1.0018 | 0.9400           | 1.0029 |
| 1.1100         | 1.0031 | 1.1500           | 0.9992 |
| 1.3000         | 1.0028 | 1.3500           | 0.9976 |
| 1.5300         | 1.0011 | 1.5500           | 1.0019 |
| 1.7400         | 1.0032 | 1.7500           | 1.0016 |
| 1.9400         | 1.0030 | 1.9500           | 1.0033 |
| 2.1400         | 1.0031 | 2.1600           | 0.9989 |
| 2.3500         | 1.0012 | 2.3700           | 1.0006 |
| 2.5500         | 1.0033 | 2.5800           | 1.0022 |

Flight 14 Test point 25

Sweep, deg = 30.4 Mach = 0.70 hp, ft = 20100. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 332.5 Rnpu = 2942000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7289                     | 0.1629                      | 0.0871                  | 0.2 x/c          |
| Outboard station rake | 0.5837                     | 0.1409                      | 0.0706                  | c non            |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5602 | 0.0400           | 0.5720 |
| 0.0500         | 0.5953 | 0.0700           | 0.6143 |
| 0.1100         | 0.6496 | 0.1200           | 0.6728 |
| 0.1700         | 0.6989 | 0.1800           | 0.7230 |
| 0.2200         | 0.7312 | 0.2100           | 0.7609 |
| 0.2700         | 0.7688 | 0.2700           | 0.8073 |
| 0.3200         | 0.8026 | 0.3100           | 0.8503 |
| 0.3600         | 0.8391 | 0.3700           | 0.8857 |
| 0.4100         | 0.8694 | 0.4200           | 0.9218 |
| 0.5100         | 0.9271 | 0.5300           | 0.9764 |
| 0.7200         | 0.9974 | 0.7300           | 1.0035 |
| 0.9100         | 0.9985 | 0.9400           | 1.0048 |
| 1.1100         | 1.0011 | 1.1500           | 1.0002 |
| 1.3000         | 1.0010 | 1.3500           | 0.9976 |
| 1.5300         | 0.9972 | 1.5500           | 1.0026 |
| 1.7400         | 1.0012 | 1.7500           | 1.0030 |
| 1.9400         | 1.0005 | 1.9500           | 1.0034 |
| 2.1400         | 1.0012 | 2.1600           | 1.0021 |
| 2.3500         | 1.0001 | 2.3700           | 1.0026 |
| 2.5500         | 1.0019 | 2.5800           | 1.0038 |

Flight 14 Test point 26

Sweep, deg = 30.5 Mach = 0.70 hp, ft = 19900. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 336.3 Rrho = 2967000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7234                     | 0.1634                      | 0.0872                  | 0.2 x/c          |
| Outboard station rake | 0.5882                     | 0.1433                      | 0.0715                  | c non            |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5623             | 0.0400           | 0.5686             |
| 0.0500         | 0.5957             | 0.0700           | 0.6088             |
| 0.1100         | 0.6478             | 0.1200           | 0.6687             |
| 0.1700         | 0.6954             | 0.1800           | 0.7214             |
| 0.2200         | 0.7305             | 0.2100           | 0.7579             |
| 0.2700         | 0.7716             | 0.2700           | 0.8052             |
| 0.3200         | 0.8021             | 0.3100           | 0.8438             |
| 0.3600         | 0.8373             | 0.3700           | 0.8803             |
| 0.4100         | 0.8683             | 0.4200           | 0.9199             |
| 0.5100         | 0.9262             | 0.5300           | 0.9745             |
| 0.7200         | 0.9990             | 0.7300           | 1.0036             |
| 0.9100         | 1.0000             | 0.9400           | 1.0030             |
| 1.1100         | 1.0016             | 1.1500           | 0.9994             |
| 1.3000         | 0.9988             | 1.3500           | 0.9990             |
| 1.5300         | 0.9966             | 1.5500           | 1.0021             |
| 1.7400         | 1.0009             | 1.7500           | 1.0043             |
| 1.9400         | 1.0013             | 1.9500           | 1.0055             |
| 2.1400         | 1.0009             | 2.1600           | 1.0022             |
| 2.3500         | 1.0012             | 2.3700           | 1.0023             |
| 2.5500         | 0.9998             | 2.5800           | 1.0041             |

Flight 14 Test point 27

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 334.6 Rnpu = 2952000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7449                     | 0.1686                      | 0.0912                  | 0.2 x/c          |
| Outboard station rake | 0.5910                     | 0.1379                      | 0.0701                  | c non            |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5682 | 0.0400           | 0.5951 |
| 0.0500         | 0.5961 | 0.0700           | 0.6240 |
| 0.1100         | 0.6494 | 0.1200           | 0.6830 |
| 0.1700         | 0.6962 | 0.1800           | 0.7318 |
| 0.2200         | 0.7299 | 0.2100           | 0.7663 |
| 0.2700         | 0.7690 | 0.2700           | 0.8148 |
| 0.3200         | 0.7975 | 0.3100           | 0.8521 |
| 0.3600         | 0.8297 | 0.3700           | 0.8876 |
| 0.4100         | 0.8571 | 0.4200           | 0.9207 |
| 0.5100         | 0.9099 | 0.5300           | 0.9740 |
| 0.7200         | 0.9916 | 0.7300           | 1.0032 |
| 0.9100         | 0.9994 | 0.9400           | 1.0040 |
| 1.1100         | 1.0013 | 1.1500           | 1.0007 |
| 1.3000         | 1.0024 | 1.3500           | 0.9983 |
| 1.5300         | 0.9960 | 1.5500           | 1.0032 |
| 1.7400         | 1.0025 | 1.7500           | 1.0045 |
| 1.9400         | 1.0011 | 1.9500           | 1.0040 |
| 2.1400         | 1.0020 | 2.1600           | 1.0007 |
| 2.3500         | 1.0011 | 2.3700           | 1.0027 |
| 2.5500         | 1.0025 | 2.5800           | 1.0048 |

Flight 14 Test point 28

Sweep, deg = 35.0 Mach = 0.70 hp, ft = 20400. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 331.8 Rnpu = 2924000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7307                     | 0.1633                      | 0.0884                  | 0.2 x/c          |
| Outboard station rake | 0.5844                     | 0.1354                      | 0.0688                  | c non            |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5726 | 0.0400           | 0.5978 |
| 0.0500         | 0.5970 | 0.0700           | 0.6276 |
| 0.1100         | 0.6527 | 0.1200           | 0.6855 |
| 0.1700         | 0.7044 | 0.1800           | 0.7352 |
| 0.2200         | 0.7353 | 0.2100           | 0.7729 |
| 0.2700         | 0.7714 | 0.2700           | 0.8167 |
| 0.3200         | 0.8048 | 0.3100           | 0.8569 |
| 0.3600         | 0.8351 | 0.3700           | 0.8919 |
| 0.4100         | 0.8643 | 0.4200           | 0.9250 |
| 0.5100         | 0.9192 | 0.5300           | 0.9772 |
| 0.7200         | 0.9966 | 0.7300           | 1.0030 |
| 0.9100         | 0.9989 | 0.9400           | 1.0038 |
| 1.1100         | 1.0026 | 1.1500           | 1.0008 |
| 1.3000         | 1.0012 | 1.3500           | 0.9964 |
| 1.5300         | 0.9944 | 1.5700           | 1.0026 |
| 1.7400         | 1.0012 | 1.7500           | 1.0041 |
| 1.9400         | 1.0008 | 1.9500           | 1.0052 |
| 2.1400         | 1.0017 | 2.1600           | 1.0013 |
| 2.3500         | 1.0014 | 2.3700           | 1.0026 |
| 2.5500         | 1.0013 | 2.5800           | 1.0029 |

Flight 14 Test point 29

Sweep, deg = 35.0 Mach = 0.75 hp, ft = 19900. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 387.2 Rnpu = 3205000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7446                     | 0.1777                      | 0.0927                  | 0.2 x/c          |
| Outboard station rake | 0.5872                     | 0.1454                      | 0.0714                  | c non            |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5560 | 0.0400           | 0.5757 |
| 0.0500         | 0.5787 | 0.0700           | 0.6058 |
| 0.1100         | 0.6331 | 0.1200           | 0.6649 |
| 0.1700         | 0.6824 | 0.1800           | 0.7149 |
| 0.2200         | 0.7164 | 0.2100           | 0.7554 |
| 0.2700         | 0.7526 | 0.2700           | 0.8022 |
| 0.3200         | 0.7867 | 0.3100           | 0.8430 |
| 0.3600         | 0.8208 | 0.3700           | 0.8819 |
| 0.4100         | 0.8512 | 0.4200           | 0.9195 |
| 0.5100         | 0.9081 | 0.5300           | 0.9747 |
| 0.7200         | 0.9915 | 0.7300           | 1.0043 |
| 0.9100         | 1.0003 | 0.9400           | 1.0039 |
| 1.1100         | 1.0014 | 1.1500           | 1.0010 |
| 1.3000         | 1.0023 | 1.3500           | 0.9969 |
| 1.5300         | 0.9964 | 1.5500           | 1.0025 |
| 1.7400         | 1.0021 | 1.7500           | 1.0034 |
| 1.9400         | 1.0020 | 1.9500           | 1.0042 |
| 2.1400         | 1.0012 | 2.1600           | 1.0024 |
| 2.3500         | 1.0010 | 2.3700           | 1.0027 |
| 2.5500         | 1.0018 | 2.5800           | 1.0040 |

Flight 14 Test point 30

Sweep, deg = 35.3 Mach = 0.76 hp, ft = 19800. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 393.0 Rnpu = 3234000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7379                     | 0.1738                      | 0.0909                  | 0.2 x/c          |
| Outboard station rake | 0.5793                     | 0.1420                      | 0.0699                  | c non            |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5564             | 0.0400           | 0.5803             |
| 0.0500         | 0.5864             | 0.0700           | 0.6108             |
| 0.1100         | 0.6398             | 0.1200           | 0.6699             |
| 0.1700         | 0.6868             | 0.1800           | 0.7199             |
| 0.2200         | 0.7161             | 0.2100           | 0.7593             |
| 0.2700         | 0.7584             | 0.2700           | 0.8095             |
| 0.3200         | 0.7919             | 0.3100           | 0.8485             |
| 0.3600         | 0.8247             | 0.3700           | 0.8879             |
| 0.4100         | 0.8561             | 0.4200           | 0.9236             |
| 0.5100         | 0.9139             | 0.5300           | 0.9782             |
| 0.7200         | 0.9940             | 0.7300           | 1.0036             |
| 0.9100         | 1.0011             | 0.9400           | 1.0035             |
| 1.1100         | 1.0018             | 1.1500           | 1.0003             |
| 1.3000         | 1.0018             | 1.3500           | 0.9990             |
| 1.5300         | 0.9947             | 1.5500           | 1.0029             |
| 1.7400         | 1.0018             | 1.7500           | 1.0024             |
| 1.9400         | 1.0005             | 1.9500           | 1.0039             |
| 2.1400         | 1.0016             | 2.1600           | 1.0016             |
| 2.3500         | 1.0010             | 2.3700           | 1.0019             |
| 2.5500         | 1.0016             | 2.5800           | 1.0026             |

Flight 15 Test point 1

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 4.9  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 172.2 R<sub>npu</sub> = 1681000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9686                     | 0.2344                      | 0.1240                  | none             |
| Outboard station rake | 0.9016                     | 0.1990                      | 0.1019                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5266             | 0.0400           | 0.5390             |
| 0.0500         | 0.5444             | 0.0700           | 0.5612             |
| 0.1100         | 0.5884             | 0.1200           | 0.6281             |
| 0.1700         | 0.6466             | 0.1800           | 0.6707             |
| 0.2200         | 0.6735             | 0.2100           | 0.6866             |
| 0.2700         | 0.7030             | 0.2700           | 0.7297             |
| 0.3200         | 0.7231             | 0.3100           | 0.7671             |
| 0.3600         | 0.7598             | 0.3700           | 0.7979             |
| 0.4100         | 0.7766             | 0.4200           | 0.8336             |
| 0.5100         | 0.8275             | 0.5300           | 0.8885             |
| 0.7200         | 0.9293             | 0.7300           | 0.9814             |
| 0.9100         | 0.9847             | 0.9400           | 1.0037             |
| 1.1100         | 1.0004             | 1.1500           | 0.9956             |
| 1.3000         | 1.0026             | 1.3500           | 0.9889             |
| 1.5300         | 1.0024             | 1.5500           | 1.0016             |
| 1.7400         | 1.0030             | 1.7500           | 0.9996             |
| 1.9400         | 1.0019             | 1.9500           | 1.0035             |
| 2.1400         | 1.0022             | 2.1600           | 0.9979             |
| 2.3500         | 0.9994             | 2.3700           | 1.0028             |
| 2.5500         | 1.0034             | 2.5800           | 1.0057             |



Flight 15 Test point 2

Sweep, deg = 34.9 Mach = 0.71 hp, ft = 35100. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -0.6 QBAR, lb/ft<sup>2</sup> = 172.9 Rnpu = 1680000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7259                     | 0.1561                      | 0.0838                  | none             |
| Outboard station rake | 0.4664                     | 0.1195                      | 0.0583                  | 0.2 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5686 | 0.0400           | 0.5894 |
| 0.0500         | 0.5965 | 0.0700           | 0.6165 |
| 0.1100         | 0.6516 | 0.1200           | 0.6968 |
| 0.1700         | 0.7007 | 0.1800           | 0.7458 |
| 0.2200         | 0.7429 | 0.2100           | 0.7866 |
| 0.2700         | 0.7845 | 0.2700           | 0.8506 |
| 0.3200         | 0.8174 | 0.3100           | 0.8952 |
| 0.3600         | 0.8540 | 0.3700           | 0.9308 |
| 0.4100         | 0.8791 | 0.4200           | 0.9702 |
| 0.5100         | 0.9373 | 0.5300           | 1.0036 |
| 0.7200         | 0.9985 | 0.7300           | 1.0042 |
| 0.9100         | 0.9983 | 0.9400           | 1.0049 |
| 1.1100         | 1.0010 | 1.1500           | 0.9989 |
| 1.3000         | 1.0011 | 1.3500           | 0.9926 |
| 1.5300         | 0.9958 | 1.5500           | 1.0050 |
| 1.7400         | 1.0020 | 1.7500           | 1.0027 |
| 1.9400         | 1.0034 | 1.9500           | 1.0080 |
| 2.1400         | 1.0032 | 2.1600           | 1.0012 |
| 2.3500         | 0.9991 | 2.3700           | 1.0045 |
| 2.5500         | 0.9977 | 2.5800           | 1.0042 |

Flight 15 Test point 3

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 35000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.6 QBAR, lb/ft<sup>2</sup> = 171.2 Rnpu = 1672000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7284                     | 0.1587                      | 0.0856                  | none             |
| Outboard station rake | 0.4737                     | 0.1166                      | 0.0567                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5778             | 0.0400           | 0.5917             |
| 0.0500         | 0.6015             | 0.0700           | 0.6245             |
| 0.1100         | 0.6528             | 0.1200           | 0.6982             |
| 0.1700         | 0.7078             | 0.1800           | 0.7543             |
| 0.2200         | 0.7341             | 0.2100           | 0.7995             |
| 0.2700         | 0.7799             | 0.2700           | 0.8528             |
| 0.3200         | 0.8091             | 0.3100           | 0.9067             |
| 0.3600         | 0.8500             | 0.3700           | 0.9415             |
| 0.4100         | 0.8749             | 0.4200           | 0.9736             |
| 0.5100         | 0.9290             | 0.5300           | 1.0023             |
| 0.7200         | 0.9976             | 0.7300           | 1.0028             |
| 0.9100         | 0.9972             | 0.9400           | 1.0061             |
| 1.1100         | 0.9985             | 1.1500           | 0.9976             |
| 1.3000         | 1.0036             | 1.3500           | 0.9951             |
| 1.5300         | 0.9979             | 1.5500           | 1.0028             |
| 1.7400         | 1.0018             | 1.7500           | 1.0014             |
| 1.9400         | 1.0015             | 1.9500           | 1.0039             |
| 2.1400         | 1.0036             | 2.1600           | 1.0007             |
| 2.3500         | 0.9983             | 2.3700           | 1.0055             |
| 2.5500         | 1.0001             | 2.5800           | 1.0081             |

Flight 15 Test point 4

Sweep, deg = 30.3 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 4.4  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 170.7 Rnpu = 1673000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9338                     | 0.2120                      | 0.1097                  | none             |
| Outboard station rake | 0.7374                     | 0.1928                      | 0.0949                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5064             | 0.0400           | 0.4875             |
| 0.0500         | 0.5282             | 0.0700           | 0.5399             |
| 0.1100         | 0.5971             | 0.1200           | 0.6037             |
| 0.1700         | 0.6457             | 0.1800           | 0.6610             |
| 0.2200         | 0.6708             | 0.2100           | 0.6834             |
| 0.2700         | 0.7131             | 0.2700           | 0.7286             |
| 0.3200         | 0.7456             | 0.3100           | 0.7772             |
| 0.3600         | 0.7748             | 0.3700           | 0.8101             |
| 0.4100         | 0.8034             | 0.4200           | 0.8479             |
| 0.5100         | 0.8610             | 0.5300           | 0.9134             |
| 0.7200         | 0.9714             | 0.7300           | 0.9972             |
| 0.9100         | 0.9971             | 0.9400           | 1.0045             |
| 1.1100         | 0.9988             | 1.1500           | 0.9961             |
| 1.3000         | 1.0012             | 1.3500           | 0.9925             |
| 1.5300         | 0.9974             | 1.5500           | 1.0024             |
| 1.7400         | 1.0018             | 1.7500           | 1.0017             |
| 1.9400         | 1.0011             | 1.9500           | 1.0038             |
| 2.1400         | 1.0018             | 2.1600           | 0.9977             |
| 2.3500         | 0.9994             | 2.3700           | 0.9998             |
| 2.5500         | 1.0015             | 2.5800           | 1.0043             |

Flight 15 Test point 5

Sweep, deg = 30.4 Mach = 0.71 hp, ft = 34900. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 175.2 Rrho = 1699000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5399                     | 0.1298                      | 0.0670                  | none             |
| Outboard station rake | 0.4653                     | 0.1189                      | 0.0570                  | 0.2 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5668 | 0.0400           | 0.5646 |
| 0.0500         | 0.5936 | 0.0700           | 0.6160 |
| 0.1100         | 0.6657 | 0.1200           | 0.6871 |
| 0.1700         | 0.7311 | 0.1800           | 0.7486 |
| 0.2200         | 0.7682 | 0.2100           | 0.7938 |
| 0.2700         | 0.8217 | 0.2700           | 0.8560 |
| 0.3200         | 0.8598 | 0.3100           | 0.9035 |
| 0.3600         | 0.9038 | 0.3700           | 0.9421 |
| 0.4100         | 0.9357 | 0.4200           | 0.9755 |
| 0.5100         | 0.9854 | 0.5300           | 0.9986 |
| 0.7200         | 1.0030 | 0.7300           | 1.0041 |
| 0.9100         | 0.9990 | 0.9400           | 1.0072 |
| 1.1100         | 1.0020 | 1.1500           | 0.9993 |
| 1.3000         | 1.0002 | 1.3500           | 0.9952 |
| 1.5300         | 1.0025 | 1.5500           | 1.0033 |
| 1.7400         | 1.0035 | 1.7500           | 1.0022 |
| 1.9400         | 1.0024 | 1.9500           | 1.0059 |
| 2.1400         | 1.0015 | 2.1600           | 1.0030 |
| 2.3500         | 1.0008 | 2.3700           | 1.0015 |
| 2.5500         | 0.9997 | 2.5800           | 1.0042 |

Flight 15 Test point 6

Sweep, deg = 30.4 Mach = 0.71 hp, ft = 33800. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 184.7 Rnpu = 1776000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4684                     | 0.1166                      | 0.0586                  | none             |
| Outboard station rake | 0.4592                     | 0.1243                      | 0.0591                  | 0.2 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5747 | 0.0400           | 0.5504 |
| 0.0500         | 0.6071 | 0.0700           | 0.6009 |
| 0.1100         | 0.6782 | 0.1200           | 0.6743 |
| 0.1700         | 0.7425 | 0.1800           | 0.7361 |
| 0.2200         | 0.7926 | 0.2100           | 0.7809 |
| 0.2700         | 0.8502 | 0.2700           | 0.8395 |
| 0.3200         | 0.8970 | 0.3100           | 0.8923 |
| 0.3600         | 0.9396 | 0.3700           | 0.9345 |
| 0.4100         | 0.9690 | 0.4200           | 0.9724 |
| 0.5100         | 0.9983 | 0.5300           | 1.0017 |
| 0.7200         | 1.0034 | 0.7300           | 1.0050 |
| 0.9100         | 1.0005 | 0.9400           | 1.0035 |
| 1.1100         | 1.0033 | 1.1500           | 1.0009 |
| 1.3000         | 1.0062 | 1.3500           | 0.9957 |
| 1.5300         | 0.9973 | 1.5500           | 1.0044 |
| 1.7400         | 1.0074 | 1.7500           | 1.0018 |
| 1.9400         | 1.0048 | 1.9500           | 1.0055 |
| 2.1400         | 1.0045 | 2.1600           | 1.0011 |
| 2.3500         | 1.0010 | 2.3700           | 1.0025 |
| 2.5500         | 1.0042 | 2.5800           | 1.0054 |

Flight 15 Test point 7

Sweep, deg = 25.1 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 3.5  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 172.6 Rnpu = 1682000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9802                     | 0.2088                      | 0.1018                  | none             |
| Outboard station rake | 0.7280                     | 0.2038                      | 0.0853                  | 0.2 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.3942 | 0.0400           | 0.1843 |
| 0.0500         | 0.4752 | 0.0700           | 0.3964 |
| 0.1100         | 0.5630 | 0.1200           | 0.5473 |
| 0.1700         | 0.6273 | 0.1800           | 0.6292 |
| 0.2200         | 0.6660 | 0.2100           | 0.6697 |
| 0.2700         | 0.7143 | 0.2700           | 0.7298 |
| 0.3200         | 0.7472 | 0.3100           | 0.7856 |
| 0.3600         | 0.7889 | 0.3700           | 0.8237 |
| 0.4100         | 0.8206 | 0.4200           | 0.8757 |
| 0.5100         | 0.8863 | 0.5300           | 0.9442 |
| 0.7200         | 0.9919 | 0.7300           | 1.0005 |
| 0.9100         | 0.9980 | 0.9400           | 1.0029 |
| 1.1100         | 1.0001 | 1.1500           | 0.9957 |
| 1.3000         | 1.0022 | 1.3500           | 0.9900 |
| 1.5300         | 0.9976 | 1.5500           | 1.0014 |
| 1.7400         | 1.0026 | 1.7500           | 1.0019 |
| 1.9400         | 1.0003 | 1.9500           | 1.0059 |
| 2.1400         | 0.9999 | 2.1600           | 0.9985 |
| 2.3500         | 0.9972 | 2.3700           | 1.0015 |
| 2.5500         | 1.0020 | 2.5800           | 1.0018 |

Flight 15 Test point 8

Sweep, deg = 25.2 Mach = 0.71 hp, ft = 34800. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 175.1 Rrho = 1699000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.3830                     | 0.0940                      | 0.0456                  | none             |
| Outboard station rake | 0.4613                     | 0.1367                      | 0.0613                  | 0.2 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5295 | 0.0400           | 0.4227 |
| 0.0500         | 0.6128 | 0.0700           | 0.5307 |
| 0.1100         | 0.7156 | 0.1200           | 0.6446 |
| 0.1700         | 0.8052 | 0.1800           | 0.7176 |
| 0.2200         | 0.8665 | 0.2100           | 0.7647 |
| 0.2700         | 0.9212 | 0.2700           | 0.8327 |
| 0.3200         | 0.9569 | 0.3100           | 0.8825 |
| 0.3600         | 0.9863 | 0.3700           | 0.9260 |
| 0.4100         | 0.9905 | 0.4200           | 0.9683 |
| 0.5100         | 0.9958 | 0.5300           | 1.0024 |
| 0.7200         | 1.0015 | 0.7300           | 1.0043 |
| 0.9100         | 0.9978 | 0.9400           | 1.0071 |
| 1.1100         | 1.0003 | 1.1500           | 0.9992 |
| 1.3000         | 1.0048 | 1.3500           | 0.9933 |
| 1.5300         | 0.9992 | 1.5500           | 1.0074 |
| 1.7400         | 1.0027 | 1.7500           | 1.0042 |
| 1.9400         | 1.0017 | 1.9500           | 1.0050 |
| 2.1400         | 1.0047 | 2.1600           | 1.0004 |
| 2.3500         | 1.0016 | 2.3700           | 1.0027 |
| 2.5500         | 0.9994 | 2.5800           | 1.0058 |

Flight 15 Test point 9

Sweep, deg = 25.3 Mach = 0.71 hp, ft = 34200. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 180.4 Rrho = 1742000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4405                     | 0.1157                      | 0.0557                  | none             |
| Outboard station rake | 0.4856                     | 0.1528                      | 0.0651                  | 0.2 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.4753 | 0.0400           | 0.3300 |
| 0.0500         | 0.5652 | 0.0700           | 0.4743 |
| 0.1100         | 0.6701 | 0.1200           | 0.6086 |
| 0.1700         | 0.7548 | 0.1800           | 0.6935 |
| 0.2200         | 0.8104 | 0.2100           | 0.7449 |
| 0.2700         | 0.8684 | 0.2700           | 0.8066 |
| 0.3200         | 0.9105 | 0.3100           | 0.8633 |
| 0.3600         | 0.9510 | 0.3700           | 0.9061 |
| 0.4100         | 0.9753 | 0.4200           | 0.9487 |
| 0.5100         | 0.9987 | 0.5300           | 0.9954 |
| 0.7200         | 1.0020 | 0.7300           | 1.0018 |
| 0.9100         | 0.9992 | 0.9400           | 1.0027 |
| 1.1100         | 1.0043 | 1.1500           | 0.9974 |
| 1.3000         | 1.0015 | 1.3500           | 0.9913 |
| 1.5300         | 1.0005 | 1.5500           | 1.0010 |
| 1.7400         | 1.0052 | 1.7500           | 1.0000 |
| 1.9400         | 1.0050 | 1.9500           | 1.0048 |
| 2.1400         | 1.0031 | 2.1600           | 0.9985 |
| 2.3500         | 1.0013 | 2.3700           | 1.0009 |
| 2.5500         | 1.0040 | 2.5800           | 1.0062 |



Flight 15 Test point 10

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 3.4  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 172.6 Rrho = 1684000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7245                     | 0.2120                      | 0.0886                  | none             |
| Outboard station rake | 0.7258                     | 0.2163                      | 0.0908                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3453             | 0.0400           | 0.5465             |
| 0.0500         | 0.1861             | 0.0700           | 0.3347             |
| 0.1100         | 0.4664             | 0.1200           | 0.3669             |
| 0.1700         | 0.6010             | 0.1800           | 0.5476             |
| 0.2200         | 0.6641             | 0.2100           | 0.6123             |
| 0.2700         | 0.7226             | 0.2700           | 0.6917             |
| 0.3200         | 0.7684             | 0.3100           | 0.7627             |
| 0.3600         | 0.8211             | 0.3700           | 0.8101             |
| 0.4100         | 0.8514             | 0.4200           | 0.8591             |
| 0.5100         | 0.9274             | 0.5300           | 0.9406             |
| 0.7200         | 0.9987             | 0.7300           | 1.0011             |
| 0.9100         | 0.9984             | 0.9400           | 1.0028             |
| 1.1100         | 1.0011             | 1.1500           | 0.9956             |
| 1.3000         | 1.0006             | 1.3500           | 0.9916             |
| 1.5300         | 0.9981             | 1.5500           | 1.0024             |
| 1.7400         | 0.9998             | 1.7500           | 1.0031             |
| 1.9400         | 0.9993             | 1.9500           | 1.0035             |
| 2.1400         | 1.0030             | 2.1600           | 0.9988             |
| 2.3500         | 1.0012             | 2.3700           | 1.0000             |
| 2.5500         | 0.9997             | 2.5800           | 1.0010             |

Flight 15 Test point 11

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 34600. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 175.5 Rnpu = 1707000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4227                     | 0.1227                      | 0.0487                  | none             |
| Outboard station rake | 0.5438                     | 0.1812                      | 0.0675                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1267             | 0.0400           | 0.4182             |
| 0.0500         | 0.4502             | 0.0700           | 0.1186             |
| 0.1100         | 0.6434             | 0.1200           | 0.5002             |
| 0.1700         | 0.7679             | 0.1800           | 0.6362             |
| 0.2200         | 0.8303             | 0.2100           | 0.6983             |
| 0.2700         | 0.8964             | 0.2700           | 0.7738             |
| 0.3200         | 0.9344             | 0.3100           | 0.8378             |
| 0.3600         | 0.9732             | 0.3700           | 0.8849             |
| 0.4100         | 0.9847             | 0.4200           | 0.9342             |
| 0.5100         | 0.9996             | 0.5300           | 0.9932             |
| 0.7200         | 1.0020             | 0.7300           | 1.0012             |
| 0.9100         | 0.9996             | 0.9400           | 1.0039             |
| 1.1100         | 1.0028             | 1.1500           | 0.9962             |
| 1.3000         | 1.0029             | 1.3500           | 0.9915             |
| 1.5300         | 0.9965             | 1.5500           | 1.0032             |
| 1.7400         | 1.0045             | 1.7500           | 1.0018             |
| 1.9400         | 1.0021             | 1.9500           | 1.0015             |
| 2.1400         | 1.0006             | 2.1600           | 0.9989             |
| 2.3500         | 1.0020             | 2.3700           | 1.0027             |
| 2.5500         | 1.0028             | 2.5800           | 1.0059             |

Flight 15 Test point 12

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 34000. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 177.3 Rnpu = 1730000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4763                     | 0.1421                      | 0.0579                  | none             |
| Outboard station rake | 0.5563                     | 0.1838                      | 0.0714                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2175             | 0.0400           | 0.4947             |
| 0.0500         | 0.3573             | 0.0700           | 0.1663             |
| 0.1100         | 0.5933             | 0.1200           | 0.4742             |
| 0.1700         | 0.7200             | 0.1800           | 0.6109             |
| 0.2200         | 0.7838             | 0.2100           | 0.6771             |
| 0.2700         | 0.8506             | 0.2700           | 0.7571             |
| 0.3200         | 0.8973             | 0.3100           | 0.8271             |
| 0.3600         | 0.9420             | 0.3700           | 0.8769             |
| 0.4100         | 0.9685             | 0.4200           | 0.9269             |
| 0.5100         | 0.9929             | 0.5300           | 0.9870             |
| 0.7200         | 1.0003             | 0.7300           | 1.0014             |
| 0.9100         | 0.9962             | 0.9400           | 1.0040             |
| 1.1100         | 1.0005             | 1.1500           | 0.9979             |
| 1.3000         | 1.0025             | 1.3500           | 0.9928             |
| 1.5300         | 0.9977             | 1.5500           | 1.0044             |
| 1.7400         | 1.0070             | 1.7500           | 1.0043             |
| 1.9400         | 1.0025             | 1.9500           | 1.0040             |
| 2.1400         | 1.0009             | 2.1600           | 1.0014             |
| 2.3500         | 0.9989             | 2.3700           | 1.0010             |
| 2.5500         | 1.0007             | 2.5800           | 1.0018             |

Flight 15 Test point 13

Sweep, deg = 20.0 Mach = 0.76 hp, ft = 34900. Angle of attack, deg = 2.5  
 Angle of sideslip, deg = 0.4 QBAR, lb/ft<sup>2</sup> = 199.4 R<sub>npu</sub> = 1826000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9387                     | 0.2054                      | 0.1087                  | none             |
| Outboard station rake | 0.7268                     | 0.3441                      | 0.1068                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5150             | 0.0400           | 0.4735             |
| 0.0500         | 0.5702             | 0.0700           | 0.4768             |
| 0.1100         | 0.6317             | 0.1200           | 0.3477             |
| 0.1700         | 0.6759             | 0.1800           | 0.2412             |
| 0.2200         | 0.6996             | 0.2100           | 0.1295             |
| 0.2700         | 0.7282             | 0.2700           | 0.3031             |
| 0.3200         | 0.7516             | 0.3100           | 0.4340             |
| 0.3600         | 0.7930             | 0.3700           | 0.5455             |
| 0.4100         | 0.8062             | 0.4200           | 0.6428             |
| 0.5100         | 0.8645             | 0.5300           | 0.8260             |
| 0.7200         | 0.9627             | 0.7300           | 1.0027             |
| 0.9100         | 0.9956             | 0.9400           | 1.0058             |
| 1.1100         | 1.0061             | 1.1500           | 0.9972             |
| 1.3000         | 1.0044             | 1.3500           | 0.9947             |
| 1.5300         | 0.9985             | 1.5500           | 1.0027             |
| 1.7400         | 1.0012             | 1.7500           | 1.0019             |
| 1.9400         | 0.9997             | 1.9500           | 1.0038             |
| 2.1400         | 0.9995             | 2.1600           | 0.9998             |
| 2.3500         | 0.9971             | 2.3700           | 0.9978             |
| 2.5500         | 0.9979             | 2.5800           | 0.9963             |

Flight 15 Test point 14

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 34900. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.9 QBAR, lb/ft<sup>2</sup> = 197.7 Rrho = 1817000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4273                     | 0.1249                      | 0.0489                  | none             |
| Outboard station rake | 0.5478                     | 0.1917                      | 0.0760                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1594             | 0.0400           | 0.5181             |
| 0.0500         | 0.4049             | 0.0700           | 0.3113             |
| 0.1100         | 0.6396             | 0.1200           | 0.3941             |
| 0.1700         | 0.7635             | 0.1800           | 0.5689             |
| 0.2200         | 0.8307             | 0.2100           | 0.6400             |
| 0.2700         | 0.8942             | 0.2700           | 0.7358             |
| 0.3200         | 0.9379             | 0.3100           | 0.8042             |
| 0.3600         | 0.9724             | 0.3700           | 0.8588             |
| 0.4100         | 0.9849             | 0.4200           | 0.9150             |
| 0.5100         | 0.9959             | 0.5300           | 0.9890             |
| 0.7200         | 1.0039             | 0.7300           | 1.0006             |
| 0.9100         | 0.9983             | 0.9400           | 1.0050             |
| 1.1100         | 1.0026             | 1.1500           | 0.9982             |
| 1.3000         | 1.0018             | 1.3500           | 0.9931             |
| 1.5300         | 0.9995             | 1.5500           | 1.0027             |
| 1.7400         | 1.0055             | 1.7500           | 1.0023             |
| 1.9400         | 1.0012             | 1.9500           | 1.0023             |
| 2.1400         | 1.0017             | 2.1600           | 1.0013             |
| 2.3500         | 1.0011             | 2.3700           | 1.0022             |
| 2.5500         | 1.0037             | 2.5800           | 1.0032             |

Flight 15 Test point 15

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 34900. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.8 QBAR, lb/ft<sup>2</sup> = 195.9 Rnpu = 1804000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6086                     | 0.1418                      | 0.0611                  | none             |
| Outboard station rake | 0.7220                     | 0.2073                      | 0.0822                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1478             | 0.0400           | 0.5543             |
| 0.0500         | 0.4621             | 0.0700           | 0.3757             |
| 0.1100         | 0.6498             | 0.1200           | 0.3084             |
| 0.1700         | 0.7558             | 0.1800           | 0.5231             |
| 0.2200         | 0.8088             | 0.2100           | 0.6032             |
| 0.2700         | 0.8545             | 0.2700           | 0.6979             |
| 0.3200         | 0.8897             | 0.3100           | 0.7723             |
| 0.3600         | 0.9242             | 0.3700           | 0.8362             |
| 0.4100         | 0.9415             | 0.4200           | 0.8925             |
| 0.5100         | 0.9739             | 0.5300           | 0.9760             |
| 0.7200         | 1.0022             | 0.7300           | 1.0009             |
| 0.9100         | 0.9984             | 0.9400           | 1.0036             |
| 1.1100         | 1.0028             | 1.1500           | 0.9955             |
| 1.3000         | 1.0043             | 1.3500           | 0.9928             |
| 1.5300         | 0.9998             | 1.5500           | 1.0009             |
| 1.7400         | 1.0060             | 1.7500           | 1.0013             |
| 1.9400         | 1.0053             | 1.9500           | 1.0011             |
| 2.1400         | 1.0021             | 2.1600           | 1.0009             |
| 2.3500         | 1.0015             | 2.3700           | 1.0012             |
| 2.5500         | 1.0036             | 2.5800           | 1.0018             |

Flight 15 Test point 16

Sweep, deg = 25.3 Mach = 0.75 hp, ft = 34900. Angle of attack, deg = 3.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 196.0 Rnpu = 1806000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6614                     | 0.1257                      | 0.0650                  | none             |
| Outboard station rake | 0.7052                     | 0.1978                      | 0.0796                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5470             | 0.0400           | 0.1976             |
| 0.0500         | 0.6235             | 0.0700           | 0.3904             |
| 0.1100         | 0.7154             | 0.1200           | 0.5405             |
| 0.1700         | 0.7866             | 0.1800           | 0.6200             |
| 0.2200         | 0.8248             | 0.2100           | 0.6574             |
| 0.2700         | 0.8556             | 0.2700           | 0.7215             |
| 0.3200         | 0.8827             | 0.3100           | 0.7826             |
| 0.3600         | 0.9139             | 0.3700           | 0.8363             |
| 0.4100         | 0.9276             | 0.4200           | 0.8911             |
| 0.5100         | 0.9622             | 0.5300           | 0.9767             |
| 0.7200         | 0.9984             | 0.7300           | 1.0029             |
| 0.9100         | 1.0038             | 0.9400           | 1.0071             |
| 1.1100         | 1.0058             | 1.1500           | 0.9959             |
| 1.3000         | 1.0052             | 1.3500           | 0.9910             |
| 1.5300         | 1.0020             | 1.5500           | 1.0012             |
| 1.7400         | 1.0058             | 1.7500           | 0.9997             |
| 1.9400         | 1.0043             | 1.9500           | 1.0017             |
| 2.1400         | 1.0032             | 2.1600           | 1.0005             |
| 2.3500         | 1.0032             | 2.3700           | 0.9997             |
| 2.5500         | 1.0061             | 2.5800           | 1.0002             |

Flight 15 Test point 17

Sweep, deg = 25.3 Mach = 0.75 hp, ft = 34700. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 197.7 Rnpu = 1818000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4188                     | 0.1140                      | 0.0536                  | none             |
| Outboard station rake | 0.4757                     | 0.1556                      | 0.0649                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4782             | 0.0400           | 0.3234             |
| 0.0500         | 0.5552             | 0.0700           | 0.4715             |
| 0.1100         | 0.6616             | 0.1200           | 0.5969             |
| 0.1700         | 0.7513             | 0.1800           | 0.6818             |
| 0.2200         | 0.8133             | 0.2100           | 0.7335             |
| 0.2700         | 0.8777             | 0.2700           | 0.8013             |
| 0.3200         | 0.9240             | 0.3100           | 0.8604             |
| 0.3600         | 0.9695             | 0.3700           | 0.9079             |
| 0.4100         | 0.9852             | 0.4200           | 0.9532             |
| 0.5100         | 0.9951             | 0.5300           | 0.9992             |
| 0.7200         | 1.0034             | 0.7300           | 1.0062             |
| 0.9100         | 0.9997             | 0.9400           | 1.0062             |
| 1.1100         | 1.0014             | 1.1500           | 1.0013             |
| 1.3000         | 1.0004             | 1.3500           | 0.9955             |
| 1.5300         | 0.9985             | 1.5500           | 1.0066             |
| 1.7400         | 1.0022             | 1.7500           | 1.0079             |
| 1.9400         | 1.0041             | 1.9500           | 1.0071             |
| 2.1400         | 1.0033             | 2.1600           | 1.0051             |
| 2.3500         | 1.0035             | 2.3700           | 1.0051             |
| 2.5500         | 1.0031             | 2.5800           | 1.0066             |



Flight 15 Test point 18

Sweep, deg = 25.3 Mach = 0.76 hp, ft = 34100. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 208.1 Rrho = 1886000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4311                     | 0.1155                      | 0.0543                  | none             |
| Outboard station rake | 0.5465                     | 0.1721                      | 0.0697                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4696             | 0.0400           | 0.2441             |
| 0.0500         | 0.5609             | 0.0700           | 0.4209             |
| 0.1100         | 0.6646             | 0.1200           | 0.5746             |
| 0.1700         | 0.7576             | 0.1800           | 0.6548             |
| 0.2200         | 0.8143             | 0.2100           | 0.7047             |
| 0.2700         | 0.8733             | 0.2700           | 0.7753             |
| 0.3200         | 0.9169             | 0.3100           | 0.8363             |
| 0.3600         | 0.9590             | 0.3700           | 0.8847             |
| 0.4100         | 0.9801             | 0.4200           | 0.9357             |
| 0.5100         | 0.9976             | 0.5300           | 0.9923             |
| 0.7200         | 1.0049             | 0.7300           | 1.0030             |
| 0.9100         | 1.0002             | 0.9400           | 1.0034             |
| 1.1100         | 1.0030             | 1.1500           | 0.9971             |
| 1.3000         | 1.0017             | 1.3500           | 0.9930             |
| 1.5300         | 0.9995             | 1.5500           | 1.0011             |
| 1.7400         | 1.0030             | 1.7500           | 1.0020             |
| 1.9400         | 1.0012             | 1.9500           | 1.0046             |
| 2.1400         | 1.0040             | 2.1600           | 1.0008             |
| 2.3500         | 1.0019             | 2.3700           | 0.9994             |
| 2.5500         | 1.0029             | 2.5800           | 1.0034             |

Flight 15 Test point 19

Sweep, deg = 30.1 Mach = 0.75 hp, ft = 34900. Angle of attack, deg = 3.2  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 198.3 Rrho = 1820000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7259                     | 0.1878                      | 0.0933                  | none             |
| Outboard station rake | 0.5706                     | 0.1691                      | 0.0768                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5031             | 0.0400           | 0.4475             |
| 0.0500         | 0.5292             | 0.0700           | 0.5239             |
| 0.1100         | 0.5831             | 0.1200           | 0.5998             |
| 0.1700         | 0.6567             | 0.1800           | 0.6574             |
| 0.2200         | 0.6910             | 0.2100           | 0.6994             |
| 0.2700         | 0.7353             | 0.2700           | 0.7604             |
| 0.3200         | 0.7717             | 0.3100           | 0.8145             |
| 0.3600         | 0.8172             | 0.3700           | 0.8595             |
| 0.4100         | 0.8466             | 0.4200           | 0.9085             |
| 0.5100         | 0.9144             | 0.5300           | 0.9772             |
| 0.7200         | 0.9979             | 0.7300           | 1.0038             |
| 0.9100         | 1.0001             | 0.9400           | 1.0057             |
| 1.1100         | 1.0024             | 1.1500           | 0.9971             |
| 1.3000         | 1.0013             | 1.3500           | 0.9951             |
| 1.5300         | 0.9975             | 1.5500           | 1.0030             |
| 1.7400         | 1.0003             | 1.7500           | 1.0035             |
| 1.9400         | 1.0003             | 1.9500           | 1.0067             |
| 2.1400         | 1.0008             | 2.1600           | 1.0007             |
| 2.3500         | 1.0007             | 2.3700           | 1.0016             |
| 2.5500         | 0.9988             | 2.5800           | 1.0055             |

Flight 15 Test point 20

Sweep, deg = 30.0 Mach = 0.76 hp, ft = 35500. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 194.3 Rrho = 1781000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7141                     | 0.1587                      | 0.0797                  | none             |
| Outboard station rake | 0.4660                     | 0.1327                      | 0.0613                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5294             | 0.0400           | 0.5222             |
| 0.0500         | 0.5591             | 0.0700           | 0.5757             |
| 0.1100         | 0.6174             | 0.1200           | 0.6543             |
| 0.1700         | 0.6806             | 0.1800           | 0.7235             |
| 0.2200         | 0.7220             | 0.2100           | 0.7648             |
| 0.2700         | 0.7739             | 0.2700           | 0.8280             |
| 0.3200         | 0.8176             | 0.3100           | 0.8809             |
| 0.3600         | 0.8670             | 0.3700           | 0.9254             |
| 0.4100         | 0.8976             | 0.4200           | 0.9657             |
| 0.5100         | 0.9621             | 0.5300           | 1.0026             |
| 0.7200         | 1.0009             | 0.7300           | 1.0045             |
| 0.9100         | 0.9964             | 0.9400           | 1.0066             |
| 1.1100         | 1.0010             | 1.1500           | 0.9998             |
| 1.3000         | 1.0012             | 1.3500           | 0.9936             |
| 1.5300         | 0.9972             | 1.5500           | 1.0042             |
| 1.7400         | 1.0024             | 1.7500           | 1.0045             |
| 1.9400         | 1.0001             | 1.9500           | 1.0058             |
| 2.1400         | 1.0015             | 2.1600           | 1.0031             |
| 2.3500         | 1.0011             | 2.3700           | 1.0041             |
| 2.5500         | 0.9982             | 2.5800           | 1.0055             |

Flight 15 Test point 21

Sweep, deg = 30.0 Mach = 0.75 hp, ft = 35000. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 198.2 Rrho = 1813000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4699                     | 0.1247                      | 0.0605                  | none             |
| Outboard station rake | 0.4728                     | 0.1396                      | 0.0635                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5450             | 0.0400           | 0.4996             |
| 0.0500         | 0.5765             | 0.0700           | 0.5560             |
| 0.1100         | 0.6499             | 0.1200           | 0.6423             |
| 0.1700         | 0.7326             | 0.1800           | 0.7031             |
| 0.2200         | 0.7802             | 0.2100           | 0.7551             |
| 0.2700         | 0.8391             | 0.2700           | 0.8192             |
| 0.3200         | 0.8870             | 0.3100           | 0.8703             |
| 0.3600         | 0.9341             | 0.3700           | 0.9149             |
| 0.4100         | 0.9657             | 0.4200           | 0.9589             |
| 0.5100         | 0.9972             | 0.5300           | 0.9989             |
| 0.7200         | 1.0021             | 0.7300           | 1.0059             |
| 0.9100         | 1.0035             | 0.9400           | 1.0089             |
| 1.1100         | 1.0034             | 1.1500           | 0.9990             |
| 1.3000         | 1.0037             | 1.3500           | 0.9965             |
| 1.5300         | 1.0004             | 1.5500           | 1.0069             |
| 1.7400         | 1.0064             | 1.7500           | 1.0052             |
| 1.9400         | 1.0031             | 1.9500           | 1.0081             |
| 2.1400         | 1.0057             | 2.1600           | 1.0047             |
| 2.3500         | 1.0051             | 2.3700           | 1.0021             |
| 2.5500         | 1.0036             | 2.5800           | 1.0049             |

Flight 15 Test point 22

Sweep, deg = 35.4 Mach = 0.75 hp, ft = 34900. Angle of attack, deg = 3.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 198.8 Rrho = 1818000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9363                     | 0.2344                      | 0.1189                  | none             |
| Outboard station rake | 0.7534                     | 0.2016                      | 0.0985                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5113             | 0.0400           | 0.5131             |
| 0.0500         | 0.5218             | 0.0700           | 0.5428             |
| 0.1100         | 0.5798             | 0.1200           | 0.6034             |
| 0.1700         | 0.6292             | 0.1800           | 0.6444             |
| 0.2200         | 0.6541             | 0.2100           | 0.6681             |
| 0.2700         | 0.6910             | 0.2700           | 0.7194             |
| 0.3200         | 0.7170             | 0.3100           | 0.7622             |
| 0.3600         | 0.7552             | 0.3700           | 0.7993             |
| 0.4100         | 0.7752             | 0.4200           | 0.8375             |
| 0.5100         | 0.8354             | 0.5300           | 0.9008             |
| 0.7200         | 0.9484             | 0.7300           | 0.9907             |
| 0.9100         | 0.9943             | 0.9400           | 1.0025             |
| 1.1100         | 1.0020             | 1.1500           | 0.9967             |
| 1.3000         | 1.0035             | 1.3500           | 0.9933             |
| 1.5300         | 0.9961             | 1.5500           | 1.0022             |
| 1.7400         | 1.0015             | 1.7500           | 0.9993             |
| 1.9400         | 1.0006             | 1.9500           | 1.0027             |
| 2.1400         | 1.0012             | 2.1600           | 0.9991             |
| 2.3500         | 1.0019             | 2.3700           | 1.0013             |
| 2.5500         | 0.9989             | 2.5800           | 1.0030             |

Flight 15 Test point 23

Sweep, deg = 35.6 Mach = 0.75 hp, ft = 34700. Angle of attack, deg = -0.2  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 200.7 Rnpu = 1834000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7325                     | 0.1739                      | 0.0907                  | none             |
| Outboard station rake | 0.5720                     | 0.1410                      | 0.0693                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5449             | 0.0400           | 0.5690             |
| 0.0500         | 0.5677             | 0.0700           | 0.5949             |
| 0.1100         | 0.6245             | 0.1200           | 0.6706             |
| 0.1700         | 0.6844             | 0.1800           | 0.7185             |
| 0.2200         | 0.7172             | 0.2100           | 0.7621             |
| 0.2700         | 0.7614             | 0.2700           | 0.8162             |
| 0.3200         | 0.7933             | 0.3100           | 0.8550             |
| 0.3600         | 0.8275             | 0.3700           | 0.8887             |
| 0.4100         | 0.8542             | 0.4200           | 0.9253             |
| 0.5100         | 0.9174             | 0.5300           | 0.9810             |
| 0.7200         | 0.9959             | 0.7300           | 1.0033             |
| 0.9100         | 0.9989             | 0.9400           | 1.0058             |
| 1.1100         | 1.0026             | 1.1500           | 0.9982             |
| 1.3000         | 1.0025             | 1.3500           | 0.9917             |
| 1.5300         | 0.9955             | 1.5500           | 1.0047             |
| 1.7400         | 1.0009             | 1.7500           | 1.0038             |
| 1.9400         | 1.0002             | 1.9500           | 1.0042             |
| 2.1400         | 1.0038             | 2.1600           | 1.0018             |
| 2.3500         | 0.9992             | 2.3700           | 1.0001             |
| 2.5500         | 1.0005             | 2.5800           | 1.0054             |

Flight 15 Test point 24

Sweep, deg = 35.6 Mach = 0.76 hp, ft = 33800. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 210.6 Rrho = 1908000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7390                     | 0.1767                      | 0.0913                  | none             |
| Outboard station rake | 0.5603                     | 0.1440                      | 0.0691                  | 0.2 x/c          |

|    | Middle station |        | Outboard station |        |
|----|----------------|--------|------------------|--------|
|    | Y, in.         | U/Umax | Y, in.           | U/Umax |
| \$ | 0.0300         | 0.5432 | 0.0400           | 0.5521 |
|    | 0.0500         | 0.5624 | 0.0700           | 0.5795 |
|    | 0.1100         | 0.6211 | 0.1200           | 0.6469 |
|    | 0.1700         | 0.6813 | 0.1800           | 0.6966 |
|    | 0.2200         | 0.7168 | 0.2100           | 0.7433 |
|    | 0.2700         | 0.7556 | 0.2700           | 0.8086 |
|    | 0.3200         | 0.7885 | 0.3100           | 0.8585 |
|    | 0.3600         | 0.8283 | 0.3700           | 0.8930 |
|    | 0.4100         | 0.8531 | 0.4200           | 0.9352 |
|    | 0.5100         | 0.9155 | 0.5300           | 0.9872 |
|    | 0.7200         | 0.9938 | 0.7300           | 1.0040 |
|    | 0.9100         | 0.9983 | 0.9400           | 1.0057 |
|    | 1.1100         | 1.0045 | 1.1500           | 0.9992 |
|    | 1.3000         | 1.0031 | 1.3500           | 0.9927 |
|    | 1.5300         | 0.9952 | 1.5500           | 1.0028 |
|    | 1.7400         | 1.0030 | 1.7500           | 1.0012 |
|    | 1.9400         | 1.0013 | 1.9500           | 1.0045 |
|    | 2.1400         | 1.0018 | 2.1600           | 1.0007 |
|    | 2.3500         | 0.9983 | 2.3700           | 0.9986 |
|    | 2.5500         | 1.0006 | 2.5800           | 1.0035 |

Flight 15 Test point 25

Sweep, deg = 35.6 Mach = 0.81 hp, ft = 35000. Angle of attack, deg = 2.5  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 226.0 Rnpu = 1953000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9120                     | 0.2646                      | 0.1229                  | none             |
| Outboard station rake | 0.8171                     | 0.2243                      | 0.1033                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4532             | 0.0400           | 0.4680             |
| 0.0500         | 0.4639             | 0.0700           | 0.4978             |
| 0.1100         | 0.5032             | 0.1200           | 0.5492             |
| 0.1700         | 0.5570             | 0.1800           | 0.5976             |
| 0.2200         | 0.5870             | 0.2100           | 0.6209             |
| 0.2700         | 0.6311             | 0.2700           | 0.6768             |
| 0.3200         | 0.6577             | 0.3100           | 0.7206             |
| 0.3600         | 0.7059             | 0.3700           | 0.7637             |
| 0.4100         | 0.7352             | 0.4200           | 0.8103             |
| 0.5100         | 0.8150             | 0.5300           | 0.8908             |
| 0.7200         | 0.9558             | 0.7300           | 0.9968             |
| 0.9100         | 0.9996             | 0.9400           | 1.0040             |
| 1.1100         | 1.0010             | 1.1500           | 0.9995             |
| 1.3000         | 1.0018             | 1.3500           | 0.9935             |
| 1.5300         | 0.9954             | 1.5500           | 1.0006             |
| 1.7400         | 1.0021             | 1.7500           | 1.0003             |
| 1.9400         | 1.0013             | 1.9500           | 1.0023             |
| 2.1400         | 0.9997             | 2.1600           | 0.9986             |
| 2.3500         | 0.9999             | 2.3700           | 1.0003             |
| 2.5500         | 0.9991             | 2.5800           | 1.0009             |



Flight 15 Test point 26

Sweep, deg = 35.5 Mach = 0.80 hp, ft = 34800. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 226.8 Rrho = 1958000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9761                     | 0.2006                      | 0.0995                  | none             |
| Outboard station rake | 0.5929                     | 0.1641                      | 0.0770                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5096             | 0.0400           | 0.5187             |
| 0.0500         | 0.5313             | 0.0700           | 0.5550             |
| 0.1100         | 0.5884             | 0.1200           | 0.6218             |
| 0.1700         | 0.6402             | 0.1800           | 0.6761             |
| 0.2200         | 0.6756             | 0.2100           | 0.7180             |
| 0.2700         | 0.7144             | 0.2700           | 0.7781             |
| 0.3200         | 0.7569             | 0.3100           | 0.8176             |
| 0.3600         | 0.7963             | 0.3700           | 0.8591             |
| 0.4100         | 0.8239             | 0.4200           | 0.9030             |
| 0.5100         | 0.8974             | 0.5300           | 0.9673             |
| 0.7200         | 0.9912             | 0.7300           | 1.0016             |
| 0.9100         | 0.9980             | 0.9400           | 1.0023             |
| 1.1100         | 1.0025             | 1.1500           | 0.9934             |
| 1.3000         | 1.0019             | 1.3500           | 0.9935             |
| 1.5300         | 0.9949             | 1.5500           | 1.0043             |
| 1.7400         | 0.9991             | 1.7500           | 0.9999             |
| 1.9400         | 1.0024             | 1.9500           | 1.0034             |
| 2.1400         | 1.0008             | 2.1600           | 1.0001             |
| 2.3500         | 1.0010             | 2.3700           | 0.9997             |
| 2.5500         | 0.9995             | 2.5800           | 1.0017             |

Flight 15 Test point 27

Sweep, deg = 35.6 Mach = 0.81 hp, ft = 34400. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 232.5 Rnpu = 1998000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9391                     | 0.2201                      | 0.1080                  | none             |
| Outboard station rake | 0.7247                     | 0.1894                      | 0.0895                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5010             | 0.0400           | 0.5091             |
| 0.0500         | 0.5175             | 0.0700           | 0.5344             |
| 0.1100         | 0.5722             | 0.1200           | 0.5911             |
| 0.1700         | 0.6204             | 0.1800           | 0.6394             |
| 0.2200         | 0.6500             | 0.2100           | 0.6729             |
| 0.2700         | 0.6930             | 0.2700           | 0.7312             |
| 0.3200         | 0.7272             | 0.3100           | 0.7795             |
| 0.3600         | 0.7650             | 0.3700           | 0.8221             |
| 0.4100         | 0.7985             | 0.4200           | 0.8654             |
| 0.5100         | 0.8666             | 0.5300           | 0.9384             |
| 0.7200         | 0.9808             | 0.7300           | 1.0015             |
| 0.9100         | 0.9977             | 0.9400           | 1.0020             |
| 1.1100         | 1.0007             | 1.1500           | 0.9980             |
| 1.3000         | 1.0011             | 1.3500           | 0.9944             |
| 1.5300         | 0.9951             | 1.5500           | 1.0006             |
| 1.7400         | 1.0026             | 1.7500           | 1.0001             |
| 1.9400         | 1.0014             | 1.9500           | 1.0030             |
| 2.1400         | 1.0009             | 2.1600           | 1.0017             |
| 2.3500         | 0.9998             | 2.3700           | 0.9982             |
| 2.5500         | 1.0006             | 2.5800           | 1.0006             |

Flight 15 Test point 28

Sweep, deg = 30.0 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 2.1  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 224.2 Rrho = 1942000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 1.1517                     | 0.2693                      | 0.1090                  | none             |
| Outboard station rake | 0.7211                     | 0.3040                      | 0.0921                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3478             | 0.0400           | 0.1509             |
| 0.0500         | 0.3687             | 0.0700           | 0.1851             |
| 0.1100         | 0.4092             | 0.1200           | 0.2649             |
| 0.1700         | 0.4592             | 0.1800           | 0.3263             |
| 0.2200         | 0.5131             | 0.2100           | 0.3902             |
| 0.2700         | 0.5653             | 0.2700           | 0.4906             |
| 0.3200         | 0.6236             | 0.3100           | 0.5814             |
| 0.3600         | 0.6917             | 0.3700           | 0.6653             |
| 0.4100         | 0.7489             | 0.4200           | 0.7659             |
| 0.5100         | 0.8640             | 0.5300           | 0.9204             |
| 0.7200         | 0.9991             | 0.7300           | 1.0033             |
| 0.9100         | 0.9995             | 0.9400           | 1.0054             |
| 1.1100         | 1.0007             | 1.1500           | 0.9995             |
| 1.3000         | 1.0012             | 1.3500           | 0.9952             |
| 1.5300         | 0.9987             | 1.5500           | 1.0022             |
| 1.7400         | 1.0019             | 1.7500           | 1.0027             |
| 1.9400         | 1.0013             | 1.9500           | 1.0048             |
| 2.1400         | 1.0020             | 2.1600           | 0.9983             |
| 2.3500         | 0.9990             | 2.3700           | 0.9940             |
| 2.5500         | 0.9956             | 2.5800           | 0.9947             |

Flight 15 Test point 29

Sweep, deg = 30.0 Mach = 0.81 hp, ft = 34900. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 226.4 Rnpu = 1955000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 1.0063                     | 0.2235                      | 0.1028                  | none             |
| Outboard station rake | 0.5447                     | 0.1764                      | 0.0761                  | 0.2 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.4530 | 0.0400           | 0.4148 |
| 0.0500         | 0.4632 | 0.0700           | 0.4757 |
| 0.1100         | 0.5208 | 0.1200           | 0.5587 |
| 0.1700         | 0.5748 | 0.1800           | 0.6264 |
| 0.2200         | 0.6147 | 0.2100           | 0.6719 |
| 0.2700         | 0.6620 | 0.2700           | 0.7393 |
| 0.3200         | 0.7115 | 0.3100           | 0.8023 |
| 0.3600         | 0.7606 | 0.3700           | 0.8621 |
| 0.4100         | 0.8041 | 0.4200           | 0.9197 |
| 0.5100         | 0.8921 | 0.5300           | 0.9912 |
| 0.7200         | 0.9980 | 0.7300           | 1.0063 |
| 0.9100         | 0.9994 | 0.9400           | 1.0070 |
| 1.1100         | 1.0008 | 1.1500           | 0.9982 |
| 1.3000         | 1.0026 | 1.3500           | 0.9938 |
| 1.5300         | 0.9952 | 1.5500           | 1.0022 |
| 1.7400         | 1.0028 | 1.7500           | 1.0004 |
| 1.9400         | 0.9999 | 1.9500           | 1.0021 |
| 2.1400         | 1.0010 | 2.1600           | 0.9976 |
| 2.3500         | 0.9986 | 2.3700           | 0.9987 |
| 2.5500         | 0.9998 | 2.5800           | 1.0024 |

Flight 15 Test point 30

Sweep, deg = 30.0 Mach = 0.81 hp, ft = 33900. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = 0.4 QBAR, lb/ft<sup>2</sup> = 238.6 Rnpu = 2043000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9195                     | 0.2834                      | 0.1138                  | none             |
| Outboard station rake | 0.7166                     | 0.2734                      | 0.0899                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3512             | 0.0400           | 0.1926             |
| 0.0500         | 0.3532             | 0.0700           | 0.2403             |
| 0.1100         | 0.4089             | 0.1200           | 0.3222             |
| 0.1700         | 0.4471             | 0.1800           | 0.3990             |
| 0.2200         | 0.4944             | 0.2100           | 0.4502             |
| 0.2700         | 0.5514             | 0.2700           | 0.5528             |
| 0.3200         | 0.6067             | 0.3100           | 0.6380             |
| 0.3600         | 0.6656             | 0.3700           | 0.7235             |
| 0.4100         | 0.7182             | 0.4200           | 0.8145             |
| 0.5100         | 0.8356             | 0.5300           | 0.9468             |
| 0.7200         | 0.9935             | 0.7300           | 1.0034             |
| 0.9100         | 0.9997             | 0.9400           | 1.0043             |
| 1.1100         | 1.0009             | 1.1500           | 0.9984             |
| 1.3000         | 1.0015             | 1.3500           | 0.9959             |
| 1.5300         | 0.9998             | 1.5500           | 1.0034             |
| 1.7400         | 0.9997             | 1.7500           | 1.0024             |
| 1.9400         | 1.0014             | 1.9500           | 1.0039             |
| 2.1400         | 0.9990             | 2.1600           | 0.9980             |
| 2.3500         | 0.9997             | 2.3700           | 0.9950             |
| 2.5500         | 0.9984             | 2.5800           | 0.9954             |

Flight 15 Test point 31

Sweep, deg = 25.0 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 224.3 Rrho = 1946000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4522                     | 0.2090                      | 0.0577                  | none             |
| Outboard station rake | 0.7179                     | 0.2945                      | 0.0834                  | 0.2 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.3766 | 0.0400           | 0.1951 |
| 0.0500         | 0.3532 | 0.0700           | 0.1607 |
| 0.1100         | 0.1605 | 0.1200           | 0.2165 |
| 0.1700         | 0.4474 | 0.1800           | 0.3106 |
| 0.2200         | 0.6052 | 0.2100           | 0.3968 |
| 0.2700         | 0.7455 | 0.2700           | 0.5238 |
| 0.3200         | 0.8495 | 0.3100           | 0.6195 |
| 0.3600         | 0.9217 | 0.3700           | 0.7131 |
| 0.4100         | 0.9656 | 0.4200           | 0.8072 |
| 0.5100         | 1.0007 | 0.5300           | 0.9481 |
| 0.7200         | 1.0082 | 0.7300           | 1.0029 |
| 0.9100         | 1.0090 | 0.9400           | 1.0042 |
| 1.1100         | 1.0087 | 1.1500           | 1.0005 |
| 1.3000         | 1.0078 | 1.3500           | 0.9983 |
| 1.5300         | 1.0082 | 1.5500           | 1.0032 |
| 1.7400         | 1.0049 | 1.7500           | 1.0018 |
| 1.9400         | 1.0003 | 1.9500           | 1.0040 |
| 2.1400         | 0.9959 | 2.1600           | 0.9993 |
| 2.3500         | 0.9952 | 2.3700           | 0.9931 |
| 2.5500         | 0.9954 | 2.5800           | 0.9927 |

Flight 15 Test point 32

Sweep, deg = 24.9 Mach = 0.81 hp, ft = 34400. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 231.9 Rrho = 1998.70.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7109                     | 0.2744                      | 0.0828                  | none             |
| Outboard station rake | 0.7087                     | 0.2400                      | 0.0784                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.0720             | 0.0400           | 0.4221             |
| 0.0500         | 0.1605             | 0.0700           | 0.3325             |
| 0.1100         | 0.2536             | 0.1200           | 0.2322             |
| 0.1700         | 0.3795             | 0.1800           | 0.4218             |
| 0.2200         | 0.4573             | 0.2100           | 0.5322             |
| 0.2700         | 0.5605             | 0.2700           | 0.6426             |
| 0.3200         | 0.6492             | 0.3100           | 0.7344             |
| 0.3600         | 0.7395             | 0.3700           | 0.8177             |
| 0.4100         | 0.8168             | 0.4200           | 0.8864             |
| 0.5100         | 0.9494             | 0.5300           | 0.9772             |
| 0.7200         | 1.0020             | 0.7300           | 1.0024             |
| 0.9100         | 0.9996             | 0.9400           | 1.0025             |
| 1.1100         | 1.0019             | 1.1500           | 0.9978             |
| 1.3000         | 1.0007             | 1.3500           | 0.9963             |
| 1.5300         | 1.0021             | 1.5500           | 1.0024             |
| 1.7400         | 1.0011             | 1.7500           | 1.0011             |
| 1.9400         | 1.0004             | 1.9500           | 1.0035             |
| 2.1400         | 1.0000             | 2.1600           | 1.0004             |
| 2.3500         | 0.9965             | 2.3700           | 0.9973             |
| 2.5500         | 0.9958             | 2.5800           | 0.9965             |

Flight 15 Test point 33

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 35000, Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 225.2 Rnpu = 1951000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5219                     | 0.2351                      | 0.0628                  | none             |
| Outboard station rake | 0.8576                     | 0.4089                      | 0.0898                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4073             | 0.0400           | 0.1503             |
| 0.0500         | 0.3964             | 0.0700           | 0.1717             |
| 0.1100         | 0.1338             | 0.1200           | 0.0790             |
| 0.1700         | 0.3636             | 0.1800           | 0.0528             |
| 0.2200         | 0.5181             | 0.2100           | 0.1039             |
| 0.2700         | 0.6607             | 0.2700           | 0.2689             |
| 0.3200         | 0.7810             | 0.3100           | 0.3758             |
| 0.3600         | 0.8728             | 0.3700           | 0.4725             |
| 0.4100         | 0.9396             | 0.4200           | 0.5824             |
| 0.5100         | 0.9941             | 0.5300           | 0.7846             |
| 0.7200         | 1.0054             | 0.7300           | 0.9928             |
| 0.9100         | 1.0039             | 0.9400           | 1.0042             |
| 1.1100         | 1.0057             | 1.1500           | 0.9983             |
| 1.3000         | 1.0044             | 1.3500           | 0.9954             |
| 1.5300         | 1.0030             | 1.5500           | 1.0016             |
| 1.7400         | 1.0011             | 1.7500           | 1.0010             |
| 1.9400         | 0.9991             | 1.9500           | 1.0027             |
| 2.1400         | 0.9953             | 2.1600           | 1.0003             |
| 2.3500         | 0.9946             | 2.3700           | 0.9995             |
| 2.5500         | 0.9935             | 2.5800           | 0.9973             |



Flight 15 Test point 34

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 34500. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 229.9 Rnpu = 1985000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5245                     | 0.2269                      | 0.0663                  | none             |
| Outboard station rake | 0.7186                     | 0.2687                      | 0.0864                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4319             | 0.0400           | 0.5246             |
| 0.0500         | 0.4213             | 0.0700           | 0.4992             |
| 0.1100         | 0.1807             | 0.1200           | 0.3063             |
| 0.1700         | 0.3659             | 0.1800           | 0.1761             |
| 0.2200         | 0.5297             | 0.2100           | 0.3828             |
| 0.2700         | 0.6667             | 0.2700           | 0.5374             |
| 0.3200         | 0.7819             | 0.3100           | 0.6497             |
| 0.3600         | 0.8749             | 0.3700           | 0.7437             |
| 0.4100         | 0.9371             | 0.4200           | 0.8303             |
| 0.5100         | 0.9926             | 0.5300           | 0.9533             |
| 0.7200         | 1.0036             | 0.7300           | 1.0025             |
| 0.9100         | 1.0040             | 0.9400           | 1.0036             |
| 1.1100         | 1.0049             | 1.1500           | 0.9988             |
| 1.3000         | 1.0027             | 1.3500           | 0.9972             |
| 1.5300         | 1.0039             | 1.5500           | 1.0024             |
| 1.7400         | 1.0020             | 1.7500           | 1.0016             |
| 1.9400         | 0.9984             | 1.9500           | 1.0022             |
| 2.1400         | 0.9974             | 2.1600           | 1.0004             |
| 2.3500         | 0.9957             | 2.3700           | 0.9955             |
| 2.5500         | 0.9945             | 2.5800           | 0.9957             |

Flight 15 Test point 35

Sweep, deg = 30.2 Mach = 0.82 hp, ft = 35000. Angle of attack, deg = 2.1  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 235.4 Rnpu = 2000000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7459                     | 0.2885                      | 0.0990                  | none             |
| Outboard station rake | 0.7285                     | 0.3807                      | 0.0855                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2636             | 0.0400           | 0.1073             |
| 0.0500         | 0.2737             | 0.0700           | 0.1025             |
| 0.1100         | 0.3321             | 0.1200           | 0.1064             |
| 0.1700         | 0.4177             | 0.1800           | 0.0994             |
| 0.2200         | 0.4769             | 0.2100           | 0.1795             |
| 0.2700         | 0.5672             | 0.2700           | 0.3254             |
| 0.3200         | 0.6356             | 0.3100           | 0.4383             |
| 0.3600         | 0.7086             | 0.3700           | 0.5507             |
| 0.4100         | 0.7725             | 0.4200           | 0.6595             |
| 0.5100         | 0.8721             | 0.5300           | 0.8414             |
| 0.7200         | 0.9992             | 0.7300           | 1.0011             |
| 0.9100         | 1.0047             | 0.9400           | 1.0038             |
| 1.1100         | 1.0054             | 1.1500           | 0.9981             |
| 1.3000         | 1.0046             | 1.3500           | 0.9967             |
| 1.5300         | 0.9953             | 1.5500           | 1.0020             |
| 1.7400         | 1.0047             | 1.7500           | 1.0012             |
| 1.9400         | 1.0049             | 1.9500           | 1.0028             |
| 2.1400         | 1.0032             | 2.1600           | 0.9985             |
| 2.3500         | 0.9907             | 2.3700           | 0.9999             |
| 2.5500         | 0.9865             | 2.5800           | 0.9971             |

Flight 15 Test point 36

Sweep, deg = 34.9 Mach = 0.82 hp, ft = 34900. Angle of attack, deg = 2.2  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 237.3 Rnpu = 2008000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9126                     | 0.3289                      | 0.1293                  | none             |
| Outboard station rake | 0.8567                     | 0.3182                      | 0.1138                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3267             | 0.0400           | 0.2803             |
| 0.0500         | 0.3355             | 0.0700           | 0.2807             |
| 0.1100         | 0.3699             | 0.1200           | 0.3463             |
| 0.1700         | 0.4189             | 0.1800           | 0.3885             |
| 0.2200         | 0.4511             | 0.2100           | 0.4216             |
| 0.2700         | 0.5116             | 0.2700           | 0.4930             |
| 0.3200         | 0.5573             | 0.3100           | 0.5584             |
| 0.3600         | 0.6130             | 0.3700           | 0.6212             |
| 0.4100         | 0.6650             | 0.4200           | 0.6917             |
| 0.5100         | 0.7658             | 0.5300           | 0.8262             |
| 0.7200         | 0.9402             | 0.7300           | 0.9915             |
| 0.9100         | 0.9993             | 0.9400           | 1.0050             |
| 1.1100         | 1.0011             | 1.1500           | 0.9972             |
| 1.3000         | 1.0011             | 1.3500           | 0.9975             |
| 1.5300         | 0.9927             | 1.5500           | 1.0043             |
| 1.7400         | 1.0019             | 1.7500           | 1.0021             |
| 1.9400         | 1.0015             | 1.9500           | 1.0043             |
| 2.1400         | 1.0005             | 2.1600           | 1.0002             |
| 2.3500         | 1.0005             | 2.3700           | 0.9948             |
| 2.5500         | 1.0015             | 2.5800           | 0.9946             |

Flight 15 Test point 37

Sweep, deg = 32.3 Mach = 0.81 hp, ft = 30000. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 285.5 Rnpu = 2374000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.8964                     | 0.2577                      | 0.1135                  | none             |
| Outboard station rake | 0.7192                     | 0.2369                      | 0.0973                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4157             | 0.0400           | 0.3632             |
| 0.0500         | 0.4298             | 0.0700           | 0.3973             |
| 0.1100         | 0.4651             | 0.1200           | 0.4680             |
| 0.1700         | 0.5286             | 0.1800           | 0.5153             |
| 0.2200         | 0.5669             | 0.2100           | 0.5552             |
| 0.2700         | 0.6105             | 0.2700           | 0.6208             |
| 0.3200         | 0.6548             | 0.3100           | 0.6873             |
| 0.3600         | 0.7043             | 0.3700           | 0.7541             |
| 0.4100         | 0.7493             | 0.4200           | 0.8195             |
| 0.5100         | 0.8460             | 0.5300           | 0.9366             |
| 0.7200         | 0.9880             | 0.7300           | 1.0032             |
| 0.9100         | 1.0008             | 0.9400           | 1.0064             |
| 1.1100         | 1.0030             | 1.1500           | 0.9999             |
| 1.3000         | 1.0030             | 1.3500           | 0.9963             |
| 1.5300         | 0.9922             | 1.5500           | 1.0023             |
| 1.7400         | 1.0008             | 1.7500           | 0.9989             |
| 1.9400         | 1.0005             | 1.9500           | 1.0031             |
| 2.1400         | 1.0018             | 2.1600           | 0.9975             |
| 2.3500         | 0.9985             | 2.3700           | 0.9969             |
| 2.5500         | 0.9995             | 2.5800           | 0.9956             |

Flight 15 Test point 38

Sweep, deg = 26.9 Mach = 0.81 hp, ft = 30000. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 285.5 Rrho = 2374000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9435                     | 0.2951                      | 0.0984                  | none             |
| Outboard station rake | 0.5477                     | 0.2307                      | 0.0723                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2281             | 0.0400           | 0.3197             |
| 0.0500         | 0.2400             | 0.0700           | 0.2181             |
| 0.1100         | 0.2862             | 0.1200           | 0.3212             |
| 0.1700         | 0.3697             | 0.1800           | 0.4781             |
| 0.2200         | 0.4415             | 0.2100           | 0.5725             |
| 0.2700         | 0.5205             | 0.2700           | 0.6788             |
| 0.3200         | 0.5988             | 0.3100           | 0.7604             |
| 0.3600         | 0.6823             | 0.3700           | 0.8381             |
| 0.4100         | 0.7576             | 0.4200           | 0.9026             |
| 0.5100         | 0.8829             | 0.5300           | 0.9874             |
| 0.7200         | 1.0006             | 0.7300           | 1.0026             |
| 0.9100         | 1.0001             | 0.9400           | 1.0045             |
| 1.1100         | 1.0008             | 1.1500           | 1.0007             |
| 1.3000         | 1.0019             | 1.3500           | 0.9977             |
| 1.5300         | 0.9934             | 1.5500           | 1.0031             |
| 1.7400         | 1.0022             | 1.7500           | 1.0022             |
| 1.9400         | 1.0019             | 1.9500           | 1.0031             |
| 2.1400         | 1.0002             | 2.1600           | 0.9966             |
| 2.3500         | 1.0007             | 2.3700           | 0.9939             |
| 2.5500         | 0.9982             | 2.5800           | 0.9954             |

Flight 15 Test point 39

Sweep, deg = 20.3 Mach = 0.80 hp, ft = 30100. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -1.3 QBAR, lb/ft<sup>2</sup> = 282.5 Rnpu = 2355000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5331                     | 0.2376                      | 0.0713                  | none             |
| Outboard station rake | 0.7200                     | 0.2756                      | 0.0831                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4978             | 0.0400           | 0.5463             |
| 0.0500         | 0.4914             | 0.0700           | 0.5239             |
| 0.1100         | 0.2988             | 0.1200           | 0.3539             |
| 0.1700         | 0.2539             | 0.1800           | 0.0216             |
| 0.2200         | 0.4528             | 0.2100           | 0.3459             |
| 0.2700         | 0.6129             | 0.2700           | 0.5190             |
| 0.3200         | 0.7445             | 0.3100           | 0.6330             |
| 0.3600         | 0.8393             | 0.3700           | 0.7336             |
| 0.4100         | 0.9102             | 0.4200           | 0.8231             |
| 0.5100         | 0.9842             | 0.5300           | 0.9516             |
| 0.7200         | 1.0068             | 0.7300           | 1.0022             |
| 0.9100         | 1.0061             | 0.9400           | 1.0030             |
| 1.1100         | 1.0070             | 1.1500           | 1.0005             |
| 1.3000         | 1.0054             | 1.3500           | 0.9986             |
| 1.5300         | 0.9956             | 1.5500           | 1.0033             |
| 1.7400         | 1.0044             | 1.7500           | 1.0015             |
| 1.9400         | 1.0025             | 1.9500           | 1.0031             |
| 2.1400         | 0.9999             | 2.1600           | 0.9990             |
| 2.3500         | 0.9942             | 2.3700           | 0.9939             |
| 2.5500         | 0.9938             | 2.5800           | 0.9948             |

Flight 15 Test point 40

Sweep, deg = 30.0 Mach = 0.75 hp, ft = 30000. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 247.8 Rrho = 2192000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7159                     | 0.1753                      | 0.0876                  | none             |
| Outboard station rake | 0.4765                     | 0.1440                      | 0.0649                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4993             | 0.0400           | 0.4859             |
| 0.0500         | 0.5401             | 0.0700           | 0.5433             |
| 0.1100         | 0.6083             | 0.1200           | 0.6323             |
| 0.1700         | 0.6642             | 0.1800           | 0.6946             |
| 0.2200         | 0.7027             | 0.2100           | 0.7414             |
| 0.2700         | 0.7485             | 0.2700           | 0.8094             |
| 0.3200         | 0.7884             | 0.3100           | 0.8625             |
| 0.3600         | 0.8311             | 0.3700           | 0.9106             |
| 0.4100         | 0.8669             | 0.4200           | 0.9544             |
| 0.5100         | 0.9375             | 0.5300           | 0.9996             |
| 0.7200         | 1.0011             | 0.7300           | 1.0068             |
| 0.9100         | 0.9991             | 0.9400           | 1.0078             |
| 1.1100         | 1.0019             | 1.1500           | 1.0019             |
| 1.3000         | 1.0015             | 1.3500           | 0.9981             |
| 1.5300         | 0.9918             | 1.5500           | 1.0037             |
| 1.7400         | 1.0016             | 1.7500           | 1.0049             |
| 1.9400         | 1.0020             | 1.9500           | 1.0087             |
| 2.1400         | 1.0019             | 2.1600           | 1.0034             |
| 2.3500         | 0.9989             | 2.3700           | 1.0051             |
| 2.5500         | 1.0003             | 2.5800           | 1.0056             |

Flight 15 Test point 41

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 30000. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 249.8 Rrho = 2199000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7601                     | 0.1604                      | 0.0762                  | none             |
| Outboard station rake | 0.7162                     | 0.2272                      | 0.0858                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3092             | 0.0400           | 0.7620             |
| 0.0500         | 0.3856             | 0.0700           | 0.6835             |
| 0.1100         | 0.6380             | 0.1200           | 0.4440             |
| 0.1700         | 0.7564             | 0.1800           | 0.1271             |
| 0.2200         | 0.8044             | 0.2100           | 0.4194             |
| 0.2700         | 0.8382             | 0.2700           | 0.5894             |
| 0.3200         | 0.8648             | 0.3100           | 0.6927             |
| 0.3600         | 0.8912             | 0.3700           | 0.7723             |
| 0.4100         | 0.8971             | 0.4200           | 0.8461             |
| 0.5100         | 0.9329             | 0.5300           | 0.9558             |
| 0.7200         | 0.9906             | 0.7300           | 1.0029             |
| 0.9100         | 1.0011             | 0.9400           | 1.0035             |
| 1.1100         | 1.0042             | 1.1500           | 0.9977             |
| 1.3000         | 1.0036             | 1.3500           | 0.9930             |
| 1.5300         | 0.9862             | 1.5500           | 1.0012             |
| 1.7400         | 1.0031             | 1.7500           | 0.9992             |
| 1.9400         | 1.0031             | 1.9500           | 1.0015             |
| 2.1400         | 1.0025             | 2.1600           | 0.9997             |
| 2.3500         | 1.0023             | 2.3700           | 1.0005             |
| 2.5500         | 1.0033             | 2.5800           | 1.0010             |



Flight 15 Test point 42

Sweep, deg = 34.1 Mach = 0.75 hp, ft = 30000. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 248.9 Rnpu = 2196000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7365                     | 0.1877                      | 0.0953                  | none             |
| Outboard station rake | 0.5623                     | 0.1484                      | 0.0710                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5296             | 0.0400           | 0.5441             |
| 0.0500         | 0.5509             | 0.0700           | 0.5798             |
| 0.1100         | 0.6035             | 0.1200           | 0.6457             |
| 0.1700         | 0.6551             | 0.1800           | 0.6983             |
| 0.2200         | 0.6969             | 0.2100           | 0.7390             |
| 0.2700         | 0.7386             | 0.2700           | 0.7958             |
| 0.3200         | 0.7695             | 0.3100           | 0.8454             |
| 0.3600         | 0.8125             | 0.3700           | 0.8835             |
| 0.4100         | 0.8384             | 0.4200           | 0.9263             |
| 0.5100         | 0.9045             | 0.5300           | 0.9846             |
| 0.7200         | 0.9938             | 0.7300           | 1.0034             |
| 0.9100         | 1.0014             | 0.9400           | 1.0055             |
| 1.1100         | 1.0031             | 1.1500           | 0.9977             |
| 1.3000         | 1.0020             | 1.3500           | 0.9949             |
| 1.5300         | 0.9913             | 1.5500           | 1.0037             |
| 1.7400         | 1.0014             | 1.7500           | 1.0011             |
| 1.9400         | 1.0017             | 1.9500           | 1.0043             |
| 2.1400         | 1.0013             | 2.1600           | 0.9998             |
| 2.3500         | 1.0016             | 2.3700           | 1.0014             |
| 2.5500         | 1.0024             | 2.5800           | 1.0035             |

Flight 15 Test point 43

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.0  $\bar{C}_{DAR}$ , lb/ft<sup>2</sup> = 353.2  $Rn_{pu}$  = 2837000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7074                     | 0.2646                      | 0.0894                  | none             |
| Outboard station rake | 0.7188                     | 0.2479                      | 0.0831                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5331             | 0.0400           | 0.5577             |
| 0.0500         | 0.4957             | 0.0700           | 0.5147             |
| 0.1100         | 0.3172             | 0.1200           | 0.3150             |
| 0.1700         | 0.2491             | 0.1800           | 0.2247             |
| 0.2200         | 0.4348             | 0.2100           | 0.4257             |
| 0.2700         | 0.5584             | 0.2700           | 0.5765             |
| 0.3200         | 0.6632             | 0.3100           | 0.6852             |
| 0.3600         | 0.7464             | 0.3700           | 0.7817             |
| 0.4100         | 0.8183             | 0.4200           | 0.8623             |
| 0.5100         | 0.9323             | 0.5300           | 0.9728             |
| 0.7200         | 1.0038             | 0.7300           | 1.0014             |
| 0.9100         | 1.0028             | 0.9400           | 1.0022             |
| 1.1100         | 1.0042             | 1.1500           | 0.9999             |
| 1.3000         | 1.0029             | 1.3500           | 0.9981             |
| 1.5300         | 0.9937             | 1.5500           | 1.0021             |
| 1.7400         | 1.0027             | 1.7500           | 1.0008             |
| 1.9400         | 1.0014             | 1.9500           | 1.0011             |
| 2.1400         | 0.9982             | 2.1600           | 0.9996             |
| 2.3500         | 0.9946             | 2.3700           | 0.9975             |
| 2.5500         | 0.9957             | 2.5800           | 0.9974             |

Flight 16 Test point 1

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 30000. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = 0.5 QBAR, lb/ft<sup>2</sup> = 283.1 Rrho = 2361000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5145                     | 0.2249                      | 0.0632                  | none             |
| Outboard station rake | 0.9112                     | 0.4316                      | 0.0883                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4436             | 0.0400           | 0.1012             |
| 0.0500         | 0.3894             | 0.0700           | 0.1036             |
| 0.1100         | 0.1179             | 0.1200           | 0.0680             |
| 0.1700         | 0.4015             | 0.1800           | 0.0217             |
| 0.2200         | 0.5507             | 0.2100           | 0.0924             |
| 0.2700         | 0.6849             | 0.2700           | 0.2309             |
| 0.3200         | 0.7938             | 0.3100           | 0.3349             |
| 0.3600         | 0.8786             | 0.3700           | 0.4373             |
| 0.4100         | 0.9426             | 0.4200           | 0.5484             |
| 0.5100         | 0.9977             | 0.5300           | 0.7520             |
| 0.7200         | 1.0069             | 0.7300           | 0.9814             |
| 0.9100         | 1.0042             | 0.9400           | 1.0026             |
| 1.1100         | 1.0058             | 1.1500           | 0.9995             |
| 1.3000         | 1.0069             | 1.3500           | 0.9975             |
| 1.5300         | 0.9973             | 1.5500           | 1.0016             |
| 1.7400         | 1.0053             | 1.7500           | 1.0027             |
| 1.9400         | 1.0039             | 1.9500           | 1.0015             |
| 2.1400         | 0.9953             | 2.1600           | 0.9991             |
| 2.3500         | 0.9880             | 2.3700           | 0.9978             |
| 2.5500         | 0.9887             | 2.5800           | 0.9977             |

Flight 16 Test point 2

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 29300. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 289.9 Rrho = 2413000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4339                     | 0.1960                      | 0.0547                  | none             |
| Outboard station rake | 0.7245                     | 0.2551                      | 0.0849                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4944             | 0.0400           | 0.5454             |
| 0.0500         | 0.4295             | 0.0700           | 0.5087             |
| 0.1100         | 0.0724             | 0.1200           | 0.3144             |
| 0.1700         | 0.4756             | 0.1800           | 0.2197             |
| 0.2200         | 0.6297             | 0.2100           | 0.4136             |
| 0.2700         | 0.7618             | 0.2700           | 0.5630             |
| 0.3200         | 0.8694             | 0.3100           | 0.6710             |
| 0.3600         | 0.9392             | 0.3700           | 0.7665             |
| 0.4100         | 0.9811             | 0.4200           | 0.8505             |
| 0.5100         | 1.0031             | 0.5300           | 0.9660             |
| 0.7200         | 1.0065             | 0.7300           | 1.0008             |
| 0.9100         | 1.0039             | 0.9400           | 1.0024             |
| 1.1100         | 1.0045             | 1.1500           | 0.9999             |
| 1.3000         | 1.0054             | 1.3500           | 0.9981             |
| 1.5300         | 0.9963             | 1.5500           | 1.0022             |
| 1.7400         | 1.0051             | 1.7500           | 1.0015             |
| 1.9400         | 1.0022             | 1.9500           | 1.0006             |
| 2.1400         | 0.9997             | 2.1600           | 1.0007             |
| 2.3500         | 0.9960             | 2.3700           | 0.9966             |
| 2.5500         | 0.9962             | 2.5800           | 0.9972             |

Flight 16 Test point 3

Sweep, deg = 20.0 Mach = 0.81 hp, ft = 30400. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 280.5 Rnpu = 2342000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4419                     | 0.2019                      | 0.0648                  | none             |
| Outboard station rake | 0.7263                     | 0.2565                      | 0.0843                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5273             | 0.0400           | 0.5359             |
| 0.0500         | 0.4913             | 0.0700           | 0.4903             |
| 0.1100         | 0.2535             | 0.1200           | 0.2913             |
| 0.1700         | 0.3853             | 0.1800           | 0.2331             |
| 0.2200         | 0.5559             | 0.2100           | 0.4143             |
| 0.2700         | 0.6951             | 0.2700           | 0.5680             |
| 0.3200         | 0.8158             | 0.3100           | 0.6768             |
| 0.3600         | 0.9118             | 0.3700           | 0.7681             |
| 0.4100         | 0.9668             | 0.4200           | 0.8515             |
| 0.5100         | 1.0016             | 0.5300           | 0.9661             |
| 0.7200         | 1.0083             | 0.7300           | 1.0006             |
| 0.9100         | 1.0072             | 0.9400           | 1.0030             |
| 1.1100         | 1.0078             | 1.1500           | 1.0000             |
| 1.3000         | 1.0073             | 1.3500           | 0.9986             |
| 1.5300         | 0.9988             | 1.5500           | 1.0029             |
| 1.7400         | 1.0056             | 1.7500           | 1.0016             |
| 1.9400         | 1.0019             | 1.9500           | 1.0024             |
| 2.1400         | 1.0003             | 2.1600           | 0.9995             |
| 2.3500         | 0.9980             | 2.3700           | 0.9955             |
| 2.5500         | 0.9963             | 2.5800           | 0.9959             |

Flight 16 Test point 4

Sweep, deg = 25.3 Mach = 0.81 hp, ft = 25000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 356.7 Rnpu = 2852000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7199                     | 0.2792                      | 0.0930                  | none             |
| Outboard station rake | 0.7178                     | 0.2383                      | 0.0798                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3346             | 0.0400           | 0.4191             |
| 0.0500         | 0.2618             | 0.0700           | 0.3156             |
| 0.1100         | 0.2240             | 0.1200           | 0.2614             |
| 0.1700         | 0.4182             | 0.1800           | 0.4502             |
| 0.2200         | 0.5103             | 0.2100           | 0.5529             |
| 0.2700         | 0.5951             | 0.2700           | 0.6580             |
| 0.3200         | 0.6704             | 0.3100           | 0.7445             |
| 0.3600         | 0.7374             | 0.3700           | 0.8187             |
| 0.4100         | 0.7976             | 0.4200           | 0.8813             |
| 0.5100         | 0.8946             | 0.5300           | 0.9701             |
| 0.7200         | 1.0000             | 0.7300           | 1.0017             |
| 0.9100         | 1.0021             | 0.9400           | 1.0012             |
| 1.1100         | 1.0023             | 1.1500           | 1.0006             |
| 1.3000         | 1.0022             | 1.3500           | 0.9986             |
| 1.5300         | 0.9950             | 1.5500           | 1.0014             |
| 1.7400         | 1.0022             | 1.7500           | 1.0019             |
| 1.9400         | 1.0014             | 1.9500           | 1.0015             |
| 2.1400         | 1.0006             | 2.1600           | 1.0002             |
| 2.3500         | 0.9983             | 2.3700           | 0.9971             |
| 2.5500         | 0.9958             | 2.5800           | 0.9959             |

Flight 16 Test point 5

Sweep, deg = 22.5 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 353.3 Rnpu = 2836000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7093                     | 0.2745                      | 0.0848                  | none             |
| Outboard station rake | 0.7126                     | 0.2475                      | 0.0769                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4453             | 0.0400           | 0.4854             |
| 0.0500         | 0.3812             | 0.0700           | 0.4253             |
| 0.1100         | 0.0994             | 0.1200           | 0.1330             |
| 0.1700         | 0.3736             | 0.1800           | 0.3528             |
| 0.2200         | 0.4914             | 0.2100           | 0.4852             |
| 0.2700         | 0.5884             | 0.2700           | 0.6200             |
| 0.3200         | 0.6800             | 0.3100           | 0.7163             |
| 0.3600         | 0.7512             | 0.3700           | 0.8067             |
| 0.4100         | 0.8189             | 0.4200           | 0.8796             |
| 0.5100         | 0.9235             | 0.5300           | 0.9785             |
| 0.7200         | 1.0036             | 0.7300           | 1.0018             |
| 0.9100         | 1.0030             | 0.9400           | 1.0022             |
| 1.1100         | 1.0036             | 1.1500           | 1.0005             |
| 1.3000         | 1.0033             | 1.3500           | 0.9994             |
| 1.5300         | 0.9951             | 1.5500           | 1.0022             |
| 1.7400         | 1.0036             | 1.7500           | 1.0022             |
| 1.9400         | 1.0029             | 1.9500           | 1.0017             |
| 2.1400         | 1.0016             | 2.1600           | 0.9992             |
| 2.3500         | 0.9940             | 2.3700           | 0.9955             |
| 2.5500         | 0.9893             | 2.5800           | 0.9955             |

Flight 16 Test point 6

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 355.2 Rnpu = 2842000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7041                     | 0.2657                      | 0.0860                  | none             |
| Outboard station rake | 0.7205                     | 0.2541                      | 0.0832                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4980             | 0.0400           | 0.5418             |
| 0.0500         | 0.4628             | 0.0700           | 0.5014             |
| 0.1100         | 0.2916             | 0.1200           | 0.3102             |
| 0.1700         | 0.2546             | 0.1800           | 0.2124             |
| 0.2200         | 0.4283             | 0.2100           | 0.4163             |
| 0.2700         | 0.5490             | 0.2700           | 0.5672             |
| 0.3200         | 0.6571             | 0.3100           | 0.6762             |
| 0.3600         | 0.7472             | 0.3700           | 0.7739             |
| 0.4100         | 0.8298             | 0.4200           | 0.8564             |
| 0.5100         | 0.9476             | 0.5300           | 0.9700             |
| 0.7200         | 1.0037             | 0.7300           | 1.0013             |
| 0.9100         | 1.0035             | 0.9400           | 1.0025             |
| 1.1100         | 1.0041             | 1.1500           | 1.0000             |
| 1.3000         | 1.0045             | 1.3500           | 0.9984             |
| 1.5300         | 0.9960             | 1.5500           | 1.0020             |
| 1.7400         | 1.0046             | 1.7500           | 1.0024             |
| 1.9400         | 1.0036             | 1.9500           | 1.0023             |
| 2.1400         | 0.9963             | 2.1600           | 0.9992             |
| 2.3500         | 0.9936             | 2.3700           | 0.9958             |
| 2.5500         | 0.9902             | 2.5800           | 0.9961             |



Flight 16 Test point 7

Sweep, deg = 20.1 Mach = 0.80 hp, ft = 24900. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -5.2 QBAR, lb/ft<sup>2</sup> = 356.9 Rnpu = 2849000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7148                     | 0.2947                      | 0.0959                  | none             |
| Outboard station rake | 0.7262                     | 0.2732                      | 0.0914                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5657             | 0.0400           | 0.6476             |
| 0.0500         | 0.5534             | 0.0700           | 0.6370             |
| 0.1100         | 0.4314             | 0.1200           | 0.4894             |
| 0.1700         | 0.2682             | 0.1800           | 0.3462             |
| 0.2200         | 0.2390             | 0.2100           | 0.1293             |
| 0.2700         | 0.4305             | 0.2700           | 0.4319             |
| 0.3200         | 0.5570             | 0.3100           | 0.5751             |
| 0.3600         | 0.6613             | 0.3700           | 0.6872             |
| 0.4100         | 0.7524             | 0.4200           | 0.7850             |
| 0.5100         | 0.8947             | 0.5300           | 0.9368             |
| 0.7200         | 1.0024             | 0.7300           | 1.0011             |
| 0.9100         | 1.0028             | 0.9400           | 1.0022             |
| 1.1100         | 1.0028             | 1.1500           | 0.9995             |
| 1.3000         | 1.0034             | 1.3500           | 0.9994             |
| 1.5300         | 0.9949             | 1.5500           | 1.0017             |
| 1.7400         | 1.0033             | 1.7500           | 1.0022             |
| 1.9400         | 1.0033             | 1.9500           | 1.0018             |
| 2.1400         | 1.0019             | 2.1600           | 1.0012             |
| 2.3500         | 0.9976             | 2.3700           | 0.9950             |
| 2.5500         | 0.9899             | 2.5800           | 0.9958             |

Flight 16 Test point 8

Sweep, deg = 30.4 Mach = 0.75 hp, ft = 24900. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 310.7 R<sub>npu</sub> = 2638000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7283                     | 0.1839                      | 0.0928                  | none             |
| Outboard station rake | 0.5681                     | 0.1575                      | 0.0736                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5141             | 0.0400           | 0.4962             |
| 0.0500         | 0.5504             | 0.0700           | 0.5538             |
| 0.1100         | 0.6036             | 0.1200           | 0.6216             |
| 0.1700         | 0.6620             | 0.1800           | 0.6792             |
| 0.2200         | 0.6981             | 0.2100           | 0.7223             |
| 0.2700         | 0.7423             | 0.2700           | 0.7821             |
| 0.3200         | 0.7791             | 0.3100           | 0.8330             |
| 0.3600         | 0.8163             | 0.3700           | 0.8759             |
| 0.4100         | 0.8492             | 0.4200           | 0.9195             |
| 0.5100         | 0.9135             | 0.5300           | 0.9809             |
| 0.7200         | 0.9971             | 0.7300           | 1.0026             |
| 0.9100         | 1.0004             | 0.9400           | 1.0044             |
| 1.1100         | 1.0018             | 1.1500           | 0.9996             |
| 1.3000         | 1.0021             | 1.3500           | 0.9970             |
| 1.5300         | 0.9922             | 1.5500           | 1.0023             |
| 1.7400         | 1.0022             | 1.7500           | 1.0023             |
| 1.9400         | 1.0009             | 1.9500           | 1.0036             |
| 2.1400         | 1.0009             | 2.1600           | 1.0022             |
| 2.3500         | 1.0011             | 2.3700           | 1.0019             |
| 2.5500         | 1.0013             | 2.5800           | 1.0032             |

Flight 16 Test point 9

Sweep, deg = 27.6 Mach = 0.75 hp, ft = 24900. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 312.1 R<sub>npu</sub> = 2647000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7236                     | 0.1787                      | 0.0879                  | none             |
| Outboard station rake | 0.4950                     | 0.1522                      | 0.0675                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4706             | 0.0400           | 0.4306             |
| 0.0500         | 0.5280             | 0.0700           | 0.5219             |
| 0.1100         | 0.5934             | 0.1200           | 0.6152             |
| 0.1700         | 0.6561             | 0.1800           | 0.6834             |
| 0.2200         | 0.6972             | 0.2100           | 0.7327             |
| 0.2700         | 0.7449             | 0.2700           | 0.7960             |
| 0.3200         | 0.7864             | 0.3100           | 0.8500             |
| 0.3600         | 0.8309             | 0.3700           | 0.9008             |
| 0.4100         | 0.8695             | 0.4200           | 0.9455             |
| 0.5100         | 0.9387             | 0.5300           | 0.9943             |
| 0.7200         | 0.9991             | 0.7300           | 1.0017             |
| 0.9100         | 1.0008             | 0.9400           | 1.0024             |
| 1.1100         | 1.0018             | 1.1500           | 0.9980             |
| 1.3000         | 1.0011             | 1.3500           | 0.9960             |
| 1.5300         | 0.9908             | 1.5500           | 1.0003             |
| 1.7400         | 1.0017             | 1.7500           | 1.0015             |
| 1.9400         | 1.0008             | 1.9500           | 1.0027             |
| 2.1400         | 1.0013             | 2.1600           | 1.0006             |
| 2.3500         | 1.0012             | 2.3700           | 1.0011             |
| 2.5500         | 1.0015             | 2.5800           | 1.0010             |

Flight 16 Test point 10

Sweep, deg = 20.1 Mach = 0.75 hp, ft = 25000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 305.1 Rrho = 2614000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4323                     | 0.1345                      | 0.0509                  | none             |
| Outboard station rake | 0.5458                     | 0.1876                      | 0.0743                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.0552             | 0.0400           | 0.5165             |
| 0.0500         | 0.4158             | 0.0700           | 0.2909             |
| 0.1100         | 0.6172             | 0.1200           | 0.4088             |
| 0.1700         | 0.7399             | 0.1800           | 0.5777             |
| 0.2200         | 0.8080             | 0.2100           | 0.6572             |
| 0.2700         | 0.8707             | 0.2700           | 0.7409             |
| 0.3200         | 0.9203             | 0.3100           | 0.8111             |
| 0.3600         | 0.9589             | 0.3700           | 0.8717             |
| 0.4100         | 0.9815             | 0.4200           | 0.9231             |
| 0.5100         | 0.9996             | 0.5300           | 0.9911             |
| 0.7200         | 1.0026             | 0.7300           | 1.0011             |
| 0.9100         | 1.0020             | 0.9400           | 1.0027             |
| 1.1100         | 1.0024             | 1.1500           | 0.9986             |
| 1.3000         | 1.0042             | 1.3500           | 0.9962             |
| 1.5300         | 0.9934             | 1.5500           | 1.0021             |
| 1.7400         | 1.0044             | 1.7500           | 1.0011             |
| 1.9400         | 1.0028             | 1.9500           | 1.0020             |
| 2.1400         | 1.0019             | 2.1600           | 0.9999             |
| 2.3500         | 1.0013             | 2.3700           | 1.0022             |
| 2.5500         | 1.0038             | 2.5800           | 1.0031             |

Flight 16 Test point 11

Sweep, deg = 20.1 Mach = 0.74 hp, ft = 24900. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -5.3 QBAR, lb/ft<sup>2</sup> = 303.2 R<sub>npu</sub> = 2604000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6005                     | 0.1537                      | 0.0669                  | none             |
| Outboard station rake | 0.7312                     | 0.2051                      | 0.0832                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5908             | 0.0400           | 0.7724             |
| 0.0500         | 0.3121             | 0.0700           | 0.6638             |
| 0.1100         | 0.4962             | 0.1200           | 0.3721             |
| 0.1700         | 0.6914             | 0.1800           | 0.3129             |
| 0.2200         | 0.7754             | 0.2100           | 0.5065             |
| 0.2700         | 0.8344             | 0.2700           | 0.6460             |
| 0.3200         | 0.8815             | 0.3100           | 0.7427             |
| 0.3600         | 0.9192             | 0.3700           | 0.8162             |
| 0.4100         | 0.9383             | 0.4200           | 0.8805             |
| 0.5100         | 0.9735             | 0.5300           | 0.9733             |
| 0.7200         | 1.0018             | 0.7300           | 0.9999             |
| 0.9100         | 1.0013             | 0.9400           | 1.0018             |
| 1.1100         | 1.0036             | 1.1500           | 0.9981             |
| 1.3000         | 1.0055             | 1.3500           | 0.9944             |
| 1.5300         | 0.9913             | 1.5500           | 1.0012             |
| 1.7400         | 1.0060             | 1.7500           | 1.0002             |
| 1.9400         | 1.0036             | 1.9500           | 1.0012             |
| 2.1400         | 1.0041             | 2.1600           | 1.0003             |
| 2.3500         | 1.0043             | 2.3700           | 1.0013             |
| 2.5500         | 1.0049             | 2.5800           | 1.0017             |

Flight 16 Test point 12

Sweep, deg = 32.0 Mach = 0.70 hp, ft = 24900. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 272.1 R<sub>npu</sub> = 2453000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7213                     | 0.1652                      | 0.0877                  | none             |
| Outboard station rake | 0.4560                     | 0.1185                      | 0.0571                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5557             | 0.0400           | 0.5808             |
| 0.0500         | 0.5889             | 0.0700           | 0.6213             |
| 0.1100         | 0.6433             | 0.1200           | 0.6865             |
| 0.1700         | 0.6930             | 0.1800           | 0.7471             |
| 0.2200         | 0.7263             | 0.2100           | 0.7916             |
| 0.2700         | 0.7699             | 0.2700           | 0.8540             |
| 0.3200         | 0.8032             | 0.3100           | 0.8999             |
| 0.3600         | 0.8362             | 0.3700           | 0.9401             |
| 0.4100         | 0.8665             | 0.4200           | 0.9760             |
| 0.5100         | 0.9240             | 0.5300           | 1.0006             |
| 0.7200         | 0.9996             | 0.7300           | 1.0033             |
| 0.9100         | 0.9992             | 0.9400           | 1.0055             |
| 1.1100         | 1.0027             | 1.1500           | 0.9996             |
| 1.3000         | 1.0013             | 1.3500           | 0.9971             |
| 1.5300         | 0.9900             | 1.5500           | 1.0029             |
| 1.7400         | 1.0012             | 1.7500           | 1.0023             |
| 1.9400         | 1.0003             | 1.9500           | 1.0037             |
| 2.1400         | 1.0016             | 2.1600           | 1.0023             |
| 2.3500         | 1.0017             | 2.3700           | 1.0028             |
| 2.5500         | 1.0023             | 2.5800           | 1.0039             |

Flight 16 Test point 13

Sweep, deg = 31.4 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 270.6 Rnpu = 2443000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7224                     | 0.1561                      | 0.0825                  | none             |
| Outboard station rake | 0.4587                     | 0.1200                      | 0.0575                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5582             | 0.0400           | 0.5683             |
| 0.0500         | 0.5912             | 0.0700           | 0.6135             |
| 0.1100         | 0.6480             | 0.1200           | 0.6849             |
| 0.1700         | 0.7013             | 0.1800           | 0.7440             |
| 0.2200         | 0.7360             | 0.2100           | 0.7927             |
| 0.2700         | 0.7809             | 0.2700           | 0.8519             |
| 0.3200         | 0.8175             | 0.3100           | 0.8983             |
| 0.3600         | 0.8547             | 0.3700           | 0.9382             |
| 0.4100         | 0.8854             | 0.4200           | 0.9742             |
| 0.5100         | 0.9442             | 0.5300           | 0.9998             |
| 0.7200         | 0.9994             | 0.7300           | 1.0036             |
| 0.9100         | 1.0004             | 0.9400           | 1.0061             |
| 1.1100         | 1.0017             | 1.1500           | 1.0002             |
| 1.3000         | 1.0017             | 1.3500           | 0.9957             |
| 1.5300         | 0.9887             | 1.5500           | 1.0029             |
| 1.7400         | 1.0027             | 1.7500           | 1.0025             |
| 1.9400         | 1.0014             | 1.9500           | 1.0047             |
| 2.1400         | 1.0019             | 2.1600           | 1.0020             |
| 2.3500         | 1.0022             | 2.3700           | 1.0033             |
| 2.5500         | 0.9998             | 2.5800           | 1.0050             |

Flight 16 Test point 14

Sweep, deg = 27.6 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 271.8 Rnpu = 2450000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4722                     | 0.1178                      | 0.0587                  | none             |
| Outboard station rake | 0.4666                     | 0.1314                      | 0.0608                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5414             | 0.0400           | 0.4873             |
| 0.0500         | 0.5950             | 0.0700           | 0.5669             |
| 0.1100         | 0.6755             | 0.1200           | 0.6572             |
| 0.1700         | 0.7483             | 0.1800           | 0.7264             |
| 0.2200         | 0.7957             | 0.2100           | 0.7711             |
| 0.2700         | 0.8488             | 0.2700           | 0.8340             |
| 0.3200         | 0.8960             | 0.3100           | 0.8853             |
| 0.3600         | 0.9395             | 0.3700           | 0.9307             |
| 0.4100         | 0.9680             | 0.4200           | 0.9679             |
| 0.5100         | 0.9977             | 0.5300           | 1.0010             |
| 0.7200         | 1.0046             | 0.7300           | 1.0045             |
| 0.9100         | 1.0031             | 0.9400           | 1.0062             |
| 1.1100         | 1.0042             | 1.1500           | 0.9989             |
| 1.3000         | 1.0052             | 1.3500           | 0.9987             |
| 1.5300         | 0.9950             | 1.5500           | 1.0041             |
| 1.7400         | 1.0034             | 1.7500           | 1.0029             |
| 1.9400         | 1.0050             | 1.9500           | 1.0056             |
| 2.1400         | 1.0053             | 2.1600           | 1.0024             |
| 2.3500         | 1.0041             | 2.3700           | 1.0026             |
| 2.5500         | 1.0044             | 2.5800           | 1.0052             |



Flight 16 Test point 15

Sweep, deg = 20.1 Mach = 0.71 hp, ft = 25000. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -3.3 QBAR, lb/ft<sup>2</sup> = 273.1 Rrho = 2456000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4248                     | 0.1397                      | 0.0542                  | none             |
| Outboard station rake | 0.5523                     | 0.1820                      | 0.0740                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5247             | 0.0400           | 0.6581             |
| 0.0500         | 0.1986             | 0.0700           | 0.4649             |
| 0.1100         | 0.5205             | 0.1200           | 0.2979             |
| 0.1700         | 0.7043             | 0.1800           | 0.5429             |
| 0.2200         | 0.7897             | 0.2100           | 0.6496             |
| 0.2700         | 0.8601             | 0.2700           | 0.7421             |
| 0.3200         | 0.9212             | 0.3100           | 0.8157             |
| 0.3600         | 0.9636             | 0.3700           | 0.8749             |
| 0.4100         | 0.9839             | 0.4200           | 0.9268             |
| 0.5100         | 0.9966             | 0.5300           | 0.9886             |
| 0.7200         | 1.0027             | 0.7300           | 1.0017             |
| 0.9100         | 1.0005             | 0.9400           | 1.0032             |
| 1.1100         | 1.0033             | 1.1500           | 0.9975             |
| 1.3000         | 1.0031             | 1.3500           | 0.9951             |
| 1.5300         | 0.9907             | 1.5500           | 1.0029             |
| 1.7400         | 1.0038             | 1.7500           | 1.0021             |
| 1.9400         | 1.0038             | 1.9500           | 1.0033             |
| 2.1400         | 1.0036             | 2.1600           | 1.0020             |
| 2.3500         | 1.0039             | 2.3700           | 1.0001             |
| 2.5500         | 1.0039             | 2.5800           | 1.0034             |

Flight 16 Test point 16

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 333.2 Rnpu = 2905000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.3754                     | 0.1157                      | 0.0468                  | none             |
| Outboard station rake | 0.4722                     | 0.1665                      | 0.0628                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1922             | 0.0400           | 0.4138             |
| 0.0500         | 0.4635             | 0.0700           | 0.1821             |
| 0.1100         | 0.6551             | 0.1200           | 0.5273             |
| 0.1700         | 0.7741             | 0.1800           | 0.8565             |
| 0.2200         | 0.8446             | 0.2100           | 0.7243             |
| 0.2700         | 0.9057             | 0.2700           | 0.8029             |
| 0.3200         | 0.9541             | 0.3100           | 0.8603             |
| 0.3600         | 0.9870             | 0.3700           | 0.9117             |
| 0.4100         | 0.9952             | 0.4200           | 0.9566             |
| 0.5100         | 0.9994             | 0.5300           | 0.9987             |
| 0.7200         | 1.0037             | 0.7300           | 1.0039             |
| 0.9100         | 1.0018             | 0.9400           | 1.0062             |
| 1.1100         | 1.0039             | 1.1500           | 1.0024             |
| 1.3000         | 1.0038             | 1.3500           | 1.0003             |
| 1.5300         | 0.9907             | 1.5500           | 1.0050             |
| 1.7400         | 1.0032             | 1.7500           | 1.0054             |
| 1.9400         | 1.0016             | 1.9500           | 1.0062             |
| 2.1400         | 1.0024             | 2.1600           | 1.0039             |
| 2.3500         | 1.0033             | 2.3700           | 1.0053             |
| 2.5500         | 1.0040             | 2.5800           | 1.0061             |

Flight 16 Test point 17

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 330.7 Rrho = 2893000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4280                     | 0.1351                      | 0.0545                  | none             |
| Outboard station rake | 0.5530                     | 0.1803                      | 0.0669                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2082             | 0.0400           | 0.4717             |
| 0.0500         | 0.3723             | 0.0700           | 0.0910             |
| 0.1100         | 0.6021             | 0.1200           | 0.4861             |
| 0.1700         | 0.7293             | 0.1800           | 0.6340             |
| 0.2200         | 0.7946             | 0.2100           | 0.7007             |
| 0.2700         | 0.8594             | 0.2700           | 0.7774             |
| 0.3200         | 0.9153             | 0.3100           | 0.8373             |
| 0.3600         | 0.9578             | 0.3700           | 0.8907             |
| 0.4100         | 0.9825             | 0.4200           | 0.9355             |
| 0.5100         | 0.9995             | 0.5300           | 0.9898             |
| 0.7200         | 1.0018             | 0.7300           | 1.0006             |
| 0.9100         | 1.0016             | 0.9400           | 1.0024             |
| 1.1100         | 1.0035             | 1.1500           | 0.9997             |
| 1.3000         | 1.0046             | 1.3500           | 0.9972             |
| 1.5300         | 0.9921             | 1.5500           | 1.0019             |
| 1.7400         | 1.0034             | 1.7500           | 1.0008             |
| 1.9400         | 1.0029             | 1.9500           | 1.0020             |
| 2.1400         | 1.0020             | 2.1600           | 1.0016             |
| 2.3500         | 1.0019             | 2.3700           | 1.0019             |
| 2.5500         | 1.0042             | 2.5800           | 1.0022             |

Flight 16 Test point 18

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 335.6 Rrho = 2917000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5107                     | 0.1284                      | 0.0639                  | none             |
| Outboard station rake | 0.4555                     | 0.1278                      | 0.0583                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5117             | 0.0400           | 0.4600             |
| 0.0500         | 0.5782             | 0.0700           | 0.5557             |
| 0.1100         | 0.6619             | 0.1200           | 0.6584             |
| 0.1700         | 0.7315             | 0.1800           | 0.7361             |
| 0.2200         | 0.7816             | 0.2100           | 0.7881             |
| 0.2700         | 0.8332             | 0.2700           | 0.8483             |
| 0.3200         | 0.8767             | 0.3100           | 0.8975             |
| 0.3600         | 0.9155             | 0.3700           | 0.9421             |
| 0.4100         | 0.9460             | 0.4200           | 0.9770             |
| 0.5100         | 0.9905             | 0.5300           | 1.0018             |
| 0.7200         | 1.0022             | 0.7300           | 1.0030             |
| 0.9100         | 1.0018             | 0.9400           | 1.0032             |
| 1.1100         | 1.0023             | 1.1500           | 1.0003             |
| 1.3000         | 1.0018             | 1.3500           | 0.9970             |
| 1.5300         | 0.9914             | 1.5500           | 1.0027             |
| 1.7400         | 1.0028             | 1.7500           | 1.0027             |
| 1.9400         | 1.0023             | 1.9500           | 1.0032             |
| 2.1400         | 1.0012             | 2.1600           | 1.0022             |
| 2.3500         | 1.0017             | 2.3700           | 1.0034             |
| 2.5500         | 1.0019             | 2.5800           | 1.0034             |

Flight 16 Test point 19

Sweep, deg = 25.3 Mach = 0.71 hp, ft = 19900. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 341.4 Rnpu = 2948000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4345                     | 0.1174                      | 0.0566                  | none             |
| Outboard station rake | 0.4612                     | 0.1357                      | 0.0604                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4804             | 0.0400           | 0.4138             |
| 0.0500         | 0.5647             | 0.0700           | 0.5355             |
| 0.1100         | 0.6657             | 0.1200           | 0.6408             |
| 0.1700         | 0.7476             | 0.1800           | 0.7205             |
| 0.2200         | 0.8019             | 0.2100           | 0.7701             |
| 0.2700         | 0.8563             | 0.2700           | 0.8340             |
| 0.3200         | 0.9079             | 0.3100           | 0.8868             |
| 0.3600         | 0.9502             | 0.3700           | 0.9344             |
| 0.4100         | 0.9783             | 0.4200           | 0.9716             |
| 0.5100         | 1.0007             | 0.5300           | 1.0006             |
| 0.7200         | 1.0033             | 0.7300           | 1.0038             |
| 0.9100         | 1.0022             | 0.9400           | 1.0051             |
| 1.1100         | 1.0037             | 1.1500           | 1.0011             |
| 1.3000         | 1.0033             | 1.3500           | 0.9984             |
| 1.5300         | 0.9930             | 1.5500           | 1.0030             |
| 1.7400         | 1.0034             | 1.7500           | 1.0026             |
| 1.9400         | 1.0025             | 1.9500           | 1.0050             |
| 2.1400         | 1.0034             | 2.1600           | 1.0025             |
| 2.3500         | 1.0031             | 2.3700           | 1.0029             |
| 2.5500         | 1.0031             | 2.5800           | 1.0035             |

Flight 16 Test point 20

Sweep, deg = 30.0 Mach = 0.71 hp, ft = 20000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 339.2 R<sub>rho</sub> = 2934000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7238                     | 0.1620                      | 0.0861                  | none             |
| Outboard station rake | 0.5576                     | 0.1333                      | 0.0663                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5560             | 0.0400           | 0.5717             |
| 0.0500         | 0.5928             | 0.0700           | 0.6164             |
| 0.1100         | 0.6448             | 0.1200           | 0.6808             |
| 0.1700         | 0.6987             | 0.1800           | 0.7342             |
| 0.2200         | 0.7362             | 0.2100           | 0.7722             |
| 0.2700         | 0.7722             | 0.2700           | 0.8235             |
| 0.3200         | 0.8060             | 0.3100           | 0.8635             |
| 0.3600         | 0.8403             | 0.3700           | 0.9018             |
| 0.4100         | 0.8705             | 0.4200           | 0.9372             |
| 0.5100         | 0.9312             | 0.5300           | 0.9856             |
| 0.7200         | 0.9989             | 0.7300           | 1.0034             |
| 0.9100         | 1.0007             | 0.9400           | 1.0037             |
| 1.1100         | 1.0026             | 1.1500           | 1.0004             |
| 1.3000         | 1.0014             | 1.3500           | 0.9975             |
| 1.5300         | 0.9899             | 1.5500           | 1.0027             |
| 1.7400         | 1.0017             | 1.7500           | 1.0011             |
| 1.9400         | 1.0010             | 1.9500           | 1.0033             |
| 2.1400         | 1.0013             | 2.1600           | 1.0003             |
| 2.3500         | 1.0015             | 2.3700           | 1.0000             |
| 2.5500         | 1.0010             | 2.5800           | 1.0020             |

Flight 16 Test point 21

Sweep, deg = 30.1 Mach = 0.70 hp, ft = 19900, Angle of attack, deg = 2.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 333.9 R<sub>rho</sub> = 2907000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7272                     | 0.1651                      | 0.0878                  | none             |
| Outboard station rake | 0.7282                     | 0.1331                      | 0.0655                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5563             | 0.0400           | 0.5586             |
| 0.0500         | 0.5886             | 0.0700           | 0.6028             |
| 0.1100         | 0.6470             | 0.1200           | 0.6721             |
| 0.1700         | 0.6942             | 0.1800           | 0.7291             |
| 0.2200         | 0.7326             | 0.2100           | 0.7710             |
| 0.2700         | 0.7672             | 0.2700           | 0.8247             |
| 0.3200         | 0.8001             | 0.3100           | 0.8698             |
| 0.3600         | 0.8372             | 0.3700           | 0.9106             |
| 0.4100         | 0.8643             | 0.4200           | 0.9483             |
| 0.5100         | 0.9250             | 0.5300           | 0.9934             |
| 0.7200         | 0.9978             | 0.7300           | 1.0001             |
| 0.9100         | 1.0001             | 0.9400           | 1.0014             |
| 1.1100         | 1.0024             | 1.1500           | 0.9983             |
| 1.3000         | 1.0016             | 1.3500           | 0.9962             |
| 1.5300         | 0.9913             | 1.5500           | 1.0000             |
| 1.7400         | 1.0017             | 1.7500           | 1.0007             |
| 1.9400         | 1.0006             | 1.9500           | 1.0033             |
| 2.1400         | 1.0013             | 2.1600           | 0.9984             |
| 2.3500         | 1.0019             | 2.3700           | 1.0008             |
| 2.5500         | 1.0014             | 2.5800           | 1.0007             |

Flight 16 Test point 22

Sweep, deg = 34.9 Mach = 0.71 hp, ft = 20000. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 338.8 R<sub>npu</sub> = 2930000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7357                     | 0.1643                      | 0.0886                  | none             |
| Outboard station rake | 0.5852                     | 0.1363                      | 0.0690                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5693             | 0.0400           | 0.5912             |
| 0.0500         | 0.6007             | 0.0700           | 0.6221             |
| 0.1100         | 0.6502             | 0.1200           | 0.6840             |
| 0.1700         | 0.7017             | 0.1800           | 0.7315             |
| 0.2200         | 0.7353             | 0.2100           | 0.7698             |
| 0.2700         | 0.7737             | 0.2700           | 0.8167             |
| 0.3200         | 0.8045             | 0.3100           | 0.8543             |
| 0.3600         | 0.8378             | 0.3700           | 0.8911             |
| 0.4100         | 0.8625             | 0.4200           | 0.9265             |
| 0.5100         | 0.9184             | 0.5300           | 0.9774             |
| 0.7200         | 0.9950             | 0.7300           | 1.0037             |
| 0.9100         | 1.0007             | 0.9400           | 1.0042             |
| 1.1100         | 1.0034             | 1.1500           | 1.0014             |
| 1.3000         | 1.0038             | 1.3500           | 0.9973             |
| 1.5300         | 0.9858             | 1.5500           | 1.0043             |
| 1.7400         | 1.0039             | 1.7500           | 1.0023             |
| 1.9400         | 1.0019             | 1.9500           | 1.0038             |
| 2.1400         | 1.0015             | 2.1600           | 1.0013             |
| 2.3500         | 1.0020             | 2.3700           | 1.0020             |
| 2.5500         | 1.0020             | 2.5800           | 1.0022             |



Flight 16 Test point 23

Sweep, deg = 34.9 Mach = 0.71 hp, ft = 19900. Angle of attack, deg = 2.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 341.5 Rrho = 2948000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7544                     | 0.1760                      | 0.0941                  | none             |
| Outboard station rake | 0.6144                     | 0.1476                      | 0.0746                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5578             | 0.0400           | 0.5794             |
| 0.0500         | 0.5888             | 0.0700           | 0.6128             |
| 0.1100         | 0.6402             | 0.1200           | 0.6711             |
| 0.1700         | 0.6891             | 0.1800           | 0.7183             |
| 0.2200         | 0.7180             | 0.2100           | 0.7524             |
| 0.2700         | 0.7561             | 0.2700           | 0.7985             |
| 0.3200         | 0.7880             | 0.3100           | 0.8382             |
| 0.3600         | 0.8218             | 0.3700           | 0.8727             |
| 0.4100         | 0.8472             | 0.4200           | 0.9062             |
| 0.5100         | 0.9030             | 0.5300           | 0.9627             |
| 0.7200         | 0.9879             | 0.7300           | 1.0050             |
| 0.9100         | 0.9993             | 0.9400           | 1.0151             |
| 1.1100         | 1.0039             | 1.1500           | 1.0225             |
| 1.3000         | 1.0008             | 1.3500           | 0.9994             |
| 1.5300         | 0.9872             | 1.5500           | 1.0052             |
| 1.7400         | 1.0025             | 1.7500           | 1.0040             |
| 1.9400         | 1.0029             | 1.9500           | 1.0054             |
| 2.1400         | 1.0009             | 2.1600           | 1.0020             |
| 2.3500         | 1.0013             | 2.3700           | 1.0038             |
| 2.5500         | 1.0012             | 2.5800           | 1.0048             |

Flight 16 Test point 24

Sweep, deg = 34.9 Mach = 0.69 hp, ft = 19700. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 325.2 Rnpu = 2875000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7279                     | 0.1554                      | 0.0852                  | none             |
| Outboard station rake | 0.5630                     | 0.1282                      | 0.0658                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5770             | 0.0400           | 0.6036             |
| 0.0500         | 0.6094             | 0.0700           | 0.6356             |
| 0.1100         | 0.6594             | 0.1200           | 0.6956             |
| 0.1700         | 0.7118             | 0.1800           | 0.7479             |
| 0.2200         | 0.7461             | 0.2100           | 0.7798             |
| 0.2700         | 0.7843             | 0.2700           | 0.8274             |
| 0.3200         | 0.8123             | 0.3100           | 0.8659             |
| 0.3600         | 0.8480             | 0.3700           | 0.9007             |
| 0.4100         | 0.8742             | 0.4200           | 0.9352             |
| 0.5100         | 0.9297             | 0.5300           | 0.9836             |
| 0.7200         | 0.9978             | 0.7300           | 1.0033             |
| 0.9100         | 1.0007             | 0.9400           | 1.0043             |
| 1.1100         | 1.0026             | 1.1500           | 0.9995             |
| 1.3000         | 1.0025             | 1.3500           | 0.9955             |
| 1.5300         | 0.9849             | 1.5500           | 1.0028             |
| 1.7400         | 1.0029             | 1.7500           | 1.0022             |
| 1.9400         | 1.0017             | 1.9500           | 1.0041             |
| 2.1400         | 1.0023             | 2.1600           | 1.0002             |
| 2.3500         | 1.0015             | 2.3700           | 1.0010             |
| 2.5500         | 1.0031             | 2.5800           | 1.0033             |

Flight 16 Test point 25

Sweep, deg = 34.9 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 384.9 Rnpu = 3142000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7356                     | 0.1737                      | 0.0907                  | none             |
| Outboard station rake | 0.5885                     | 0.1458                      | 0.0718                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5551             | 0.0400           | 0.5747             |
| 0.0500         | 0.5838             | 0.0700           | 0.6070             |
| 0.1100         | 0.6347             | 0.1200           | 0.6645             |
| 0.1700         | 0.6858             | 0.1800           | 0.7173             |
| 0.2200         | 0.7220             | 0.2100           | 0.7538             |
| 0.2700         | 0.7603             | 0.2700           | 0.8028             |
| 0.3200         | 0.7927             | 0.3100           | 0.8445             |
| 0.3600         | 0.8266             | 0.3700           | 0.8819             |
| 0.4100         | 0.8548             | 0.4200           | 0.9153             |
| 0.5100         | 0.9142             | 0.5300           | 0.9729             |
| 0.7200         | 0.9948             | 0.7300           | 1.0034             |
| 0.9100         | 1.0010             | 0.9400           | 1.0038             |
| 1.1100         | 1.0031             | 1.1500           | 1.0008             |
| 1.3000         | 1.0021             | 1.3500           | 0.9991             |
| 1.5300         | 0.9871             | 1.5500           | 1.0041             |
| 1.7400         | 1.0038             | 1.7500           | 1.0026             |
| 1.9400         | 1.0023             | 1.9500           | 1.0046             |
| 2.1400         | 1.0010             | 2.1600           | 1.0029             |
| 2.3500         | 1.0019             | 2.3700           | 1.0028             |
| 2.5500         | 1.0031             | 2.5800           | 1.0029             |

Flight 16 Test point 26

Sweep, deg = 34.9 Mach = 0.75 hp, ft = 19500. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 388.4 Rrho = 3186000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | 0.7292                        | 0.1651                         | 0.0871                     | none                |
| Outboard station rake | 0.5767                        | 0.1378                         | 0.0683                     | 0.2 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5622 | 0.0400           | 0.5816 |
| 0.0500         | 0.5894 | 0.0700           | 0.6171 |
| 0.1100         | 0.6451 | 0.1200           | 0.6763 |
| 0.1700         | 0.6982 | 0.1800           | 0.7298 |
| 0.2200         | 0.7339 | 0.2100           | 0.7690 |
| 0.2700         | 0.7714 | 0.2700           | 0.8134 |
| 0.3200         | 0.8052 | 0.3100           | 0.8583 |
| 0.3600         | 0.8409 | 0.3700           | 0.8943 |
| 0.4100         | 0.8670 | 0.4200           | 0.9286 |
| 0.5100         | 0.9248 | 0.5300           | 0.9805 |
| 0.7200         | 0.9972 | 0.7300           | 1.0026 |
| 0.9100         | 1.0005 | 0.9400           | 1.0044 |
| 1.1100         | 1.0036 | 1.1500           | 1.0005 |
| 1.3000         | 1.0033 | 1.3500           | 0.9982 |
| 1.5300         | 0.9871 | 1.5500           | 1.0027 |
| 1.7400         | 1.0018 | 1.7500           | 1.0009 |
| 1.9400         | 1.0022 | 1.9500           | 1.0041 |
| 2.1400         | 1.0009 | 2.1600           | 1.0009 |
| 2.3500         | 1.0017 | 2.3700           | 1.0024 |
| 2.5500         | 1.0017 | 2.5800           | 1.0027 |

Flight 16 Test point 27

Sweep, deg = 34.9 Mach = 0.75 hp, ft = 20100. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 384.3 Rrho = 3145000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9046                     | 0.1860                      | 0.0966                  | none             |
| Outboard station rake | 0.7243                     | 0.1602                      | 0.0798                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5425             | 0.0400           | 0.5561             |
| 0.0500         | 0.5694             | 0.0700           | 0.5923             |
| 0.1100         | 0.6250             | 0.1200           | 0.6468             |
| 0.1700         | 0.6722             | 0.1800           | 0.6972             |
| 0.2200         | 0.7048             | 0.2100           | 0.7326             |
| 0.2700         | 0.7421             | 0.2700           | 0.7824             |
| 0.3200         | 0.7757             | 0.3100           | 0.8227             |
| 0.3600         | 0.8090             | 0.3700           | 0.8610             |
| 0.4100         | 0.8402             | 0.4200           | 0.8968             |
| 0.5100         | 0.8997             | 0.5300           | 0.9577             |
| 0.7200         | 0.9887             | 0.7300           | 1.0011             |
| 0.9100         | 1.0003             | 0.9400           | 1.0023             |
| 1.1100         | 1.0029             | 1.1500           | 0.9985             |
| 1.3000         | 1.0018             | 1.3500           | 0.9962             |
| 1.5300         | 0.9875             | 1.5500           | 1.0012             |
| 1.7400         | 1.0021             | 1.7500           | 0.9990             |
| 1.9400         | 1.0001             | 1.9500           | 1.0010             |
| 2.1400         | 1.0007             | 2.1600           | 1.0004             |
| 2.3500         | 1.0026             | 2.3700           | 1.0010             |
| 2.5500         | 1.0019             | 2.5800           | 0.9992             |

Flight 16 Test point 28

Sweep, deg = 30.4 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 379.0 Rrho = 3114000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7297                     | 0.1741                      | 0.0897                  | none             |
| Outboard station rake | 0.5699                     | 0.1477                      | 0.0712                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5383             | 0.0400           | 0.5371             |
| 0.0500         | 0.5703             | 0.0700           | 0.5835             |
| 0.1100         | 0.6269             | 0.1200           | 0.6528             |
| 0.1700         | 0.6785             | 0.1800           | 0.7076             |
| 0.2200         | 0.7155             | 0.2100           | 0.7477             |
| 0.2700         | 0.7545             | 0.2700           | 0.7973             |
| 0.3200         | 0.7919             | 0.3100           | 0.8421             |
| 0.3600         | 0.8283             | 0.3700           | 0.8853             |
| 0.4100         | 0.8598             | 0.4200           | 0.9226             |
| 0.5100         | 0.9222             | 0.5300           | 0.9810             |
| 0.7200         | 0.9970             | 0.7300           | 1.0038             |
| 0.9100         | 1.0001             | 0.9400           | 1.0033             |
| 1.1100         | 1.0017             | 1.1500           | 0.9997             |
| 1.3000         | 1.0015             | 1.3500           | 0.9985             |
| 1.5300         | 0.9902             | 1.5500           | 1.0025             |
| 1.7400         | 1.0018             | 1.7500           | 1.0019             |
| 1.9400         | 1.0023             | 1.9500           | 1.0029             |
| 2.1400         | 1.0021             | 2.1600           | 1.0014             |
| 2.3500         | 1.0014             | 2.3700           | 1.0031             |
| 2.5500         | 1.0020             | 2.5800           | 1.0018             |

Flight 16 Test point 29

Sweep, deg = 30.4 Mach = 0.77 hp, ft = 20100. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 396.6 Rrho = 3199000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7310                     | 0.1924                      | 0.0961                  | none             |
| Outboard station rake | 0.7279                     | 0.1699                      | 0.0807                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5093             | 0.0400           | 0.4947             |
| 0.0500         | 0.5443             | 0.0700           | 0.5452             |
| 0.1100         | 0.5998             | 0.1200           | 0.6146             |
| 0.1700         | 0.6495             | 0.1800           | 0.6692             |
| 0.2200         | 0.6841             | 0.2100           | 0.7111             |
| 0.2700         | 0.7269             | 0.2700           | 0.7648             |
| 0.3200         | 0.7640             | 0.3100           | 0.8083             |
| 0.3600         | 0.8028             | 0.3700           | 0.8526             |
| 0.4100         | 0.8340             | 0.4200           | 0.8959             |
| 0.5100         | 0.9028             | 0.5300           | 0.9675             |
| 0.7200         | 0.9957             | 0.7300           | 1.0003             |
| 0.9100         | 1.0016             | 0.9400           | 1.0015             |
| 1.1100         | 1.0023             | 1.1500           | 0.9974             |
| 1.3000         | 1.0009             | 1.3500           | 0.9958             |
| 1.5300         | 0.9915             | 1.5500           | 1.0010             |
| 1.7400         | 1.0011             | 1.7500           | 1.0007             |
| 1.9400         | 1.0021             | 1.9500           | 1.0021             |
| 2.1400         | 1.0015             | 2.1600           | 1.0003             |
| 2.3500         | 1.0019             | 2.3700           | 1.0005             |
| 2.3500         | 1.0015             | 2.5800           | 1.0004             |

Flight 16 Test point 30

Sweep, deg = 25.3 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 381.5 Rrho = 3131000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7174                     | 0.1785                      | 0.0877                  | none             |
| Outboard station rake | 0.5523                     | 0.1652                      | 0.0713                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4381             | 0.0400           | 0.3257             |
| 0.0500         | 0.5119             | 0.0700           | 0.4697             |
| 0.1100         | 0.5977             | 0.1200           | 0.5919             |
| 0.1700         | 0.6657             | 0.1800           | 0.6695             |
| 0.2200         | 0.7073             | 0.2100           | 0.7217             |
| 0.2700         | 0.7499             | 0.2700           | 0.7858             |
| 0.3200         | 0.7903             | 0.3100           | 0.8367             |
| 0.3600         | 0.8304             | 0.3700           | 0.8842             |
| 0.4100         | 0.8672             | 0.4200           | 0.9273             |
| 0.5100         | 0.9355             | 0.5300           | 0.9887             |
| 0.7200         | 1.0007             | 0.7300           | 1.0017             |
| 0.9100         | 1.0001             | 0.9400           | 1.0030             |
| 1.1100         | 1.0014             | 1.1500           | 0.9993             |
| 1.3000         | 1.0011             | 1.3500           | 0.9971             |
| 1.5300         | 0.9912             | 1.5500           | 1.0009             |
| 1.7400         | 1.0008             | 1.7500           | 1.0011             |
| 1.9400         | 1.0010             | 1.9500           | 1.0026             |
| 2.1400         | 1.0015             | 2.1600           | 1.0012             |
| 2.3500         | 1.0005             | 2.3700           | 1.0018             |
| 2.5500         | 1.0017             | 2.5800           | 1.0026             |



Flight 16 Test point 31

Sweep, deg = 25.3 Mach = 0.76 hp, ft = 20200. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 385.5 Rnpu = 3142000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7212                     | 0.1872                      | 0.0895                  | none             |
| Outboard station rake | 0.5499                     | 0.1679                      | 0.0692                  | 0.2 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.4001 | 0.0400           | 0.2686 |
| 0.0500         | 0.4808 | 0.0700           | 0.4354 |
| 0.1100         | 0.5769 | 0.1200           | 0.5761 |
| 0.1700         | 0.6477 | 0.1800           | 0.6648 |
| 0.2200         | 0.6904 | 0.2100           | 0.7187 |
| 0.2700         | 0.7376 | 0.2700           | 0.7862 |
| 0.3200         | 0.7806 | 0.3100           | 0.8422 |
| 0.3600         | 0.8231 | 0.3700           | 0.8935 |
| 0.4100         | 0.8607 | 0.4200           | 0.9360 |
| 0.5100         | 0.9325 | 0.5300           | 0.9910 |
| 0.7200         | 0.9997 | 0.7300           | 1.0012 |
| 0.9100         | 1.0003 | 0.9400           | 1.0028 |
| 1.1100         | 1.0020 | 1.1500           | 0.9991 |
| 1.3000         | 1.0019 | 1.3500           | 0.9968 |
| 1.5300         | 0.9911 | 1.5500           | 1.0014 |
| 1.7400         | 1.0017 | 1.7500           | 1.0016 |
| 1.9400         | 1.0012 | 1.9500           | 1.0020 |
| 2.1400         | 1.0006 | 2.1600           | 1.0006 |
| 2.3500         | 1.0003 | 2.3700           | 1.0010 |
| 2.5500         | 1.0012 | 2.5800           | 1.0026 |

Flight 17 Test point 1

Sweep, deg = 20.1 Mach = 0.70 hp, ft = 9600. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 504.3 Rrho = 4111000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5497                     | 0.1612                      | 0.0689                  | none             |
| Outboard station rake | 0.4743                     | 0.1569                      | 0.0616                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1353             | 0.0400           | 0.2552             |
| 0.0500         | 0.4099             | 0.0700           | 0.3590             |
| 0.1100         | 0.5879             | 0.1200           | 0.5761             |
| 0.1700         | 0.6879             | 0.1800           | 0.6874             |
| 0.2200         | 0.7463             | 0.2100           | 0.7504             |
| 0.2700         | 0.7976             | 0.2700           | 0.8188             |
| 0.3200         | 0.8437             | 0.3100           | 0.8733             |
| 0.3600         | 0.8864             | 0.3700           | 0.9218             |
| 0.4100         | 0.9227             | 0.4200           | 0.9609             |
| 0.5100         | 0.9796             | 0.5300           | 0.9999             |
| 0.7200         | 1.0039             | 0.7300           | 1.0046             |
| 0.9100         | 1.0027             | 0.9400           | 1.0047             |
| 1.1100         | 1.0021             | 1.1500           | 1.0027             |
| 1.3000         | 1.0027             | 1.3500           | 1.0019             |
| 1.5300         | 0.9918             | 1.5500           | 1.0045             |
| 1.7400         | 1.0048             | 1.7500           | 1.0042             |
| 1.9400         | 1.0023             | 1.9500           | 1.0048             |
| 2.1400         | 1.0024             | 2.1600           | 1.0036             |
| 2.3500         | 1.0039             | 2.3700           | 1.0042             |
| 2.5500         | 1.0040             | 2.5800           | 1.0040             |

Flight 17 Test point 2

Sweep, deg = 20.1 Mach = 0.70 hp, ft = 9900. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 503.6 R<sub>npu</sub> = 4095000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.3758                     | 0.1256                      | 0.0513                  | none             |
| Outboard station rake | 0.5474                     | 0.1716                      | 0.0685                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.6070             | 0.0400           | 0.7152             |
| 0.0500         | 0.3198             | 0.0700           | 0.5197             |
| 0.1100         | 0.5032             | 0.1200           | 0.2530             |
| 0.1700         | 0.7155             | 0.1800           | 0.5474             |
| 0.2200         | 0.8168             | 0.2100           | 0.6628             |
| 0.2700         | 0.8953             | 0.2700           | 0.7647             |
| 0.3200         | 0.9567             | 0.3100           | 0.8380             |
| 0.3600         | 0.9882             | 0.3700           | 0.8999             |
| 0.4100         | 0.9931             | 0.4200           | 0.9485             |
| 0.5100         | 0.9973             | 0.5300           | 0.9936             |
| 0.7200         | 1.0006             | 0.7300           | 0.9993             |
| 0.9100         | 1.0008             | 0.9400           | 1.0015             |
| 1.1100         | 1.0022             | 1.1500           | 0.9990             |
| 1.3000         | 1.0025             | 1.3500           | 0.9978             |
| 1.5300         | 0.9892             | 1.5500           | 1.0011             |
| 1.7400         | 1.0034             | 1.7500           | 1.0014             |
| 1.9400         | 1.0022             | 1.9500           | 1.0016             |
| 2.1400         | 1.0021             | 2.1600           | 1.0012             |
| 2.3500         | 1.0035             | 2.3700           | 1.0016             |
| 2.5500         | 1.0029             | 2.5800           | 1.0019             |

Flight 17 Test point 3

Sweep, deg = 20.1 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 497.6 Rrho = 4063000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5306                     | 0.1531                      | 0.0648                  | none             |
| Outboard station rake | 0.4717                     | 0.1572                      | 0.0619                  | 0.2 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.1302 | 0.0400           | 0.2777 |
| 0.0500         | 0.4118 | 0.0700           | 0.3449 |
| 0.1100         | 0.5967 | 0.1200           | 0.5705 |
| 0.1700         | 0.7006 | 0.1800           | 0.6864 |
| 0.2200         | 0.7629 | 0.2100           | 0.7496 |
| 0.2700         | 0.8184 | 0.2700           | 0.8182 |
| 0.3200         | 0.8645 | 0.3100           | 0.8724 |
| 0.3600         | 0.9022 | 0.3700           | 0.9202 |
| 0.4100         | 0.9374 | 0.4200           | 0.9610 |
| 0.5100         | 0.9886 | 0.5300           | 0.9997 |
| 0.7200         | 1.0017 | 0.7300           | 1.0036 |
| 0.9100         | 1.0023 | 0.9400           | 1.0053 |
| 1.1100         | 1.0027 | 1.1500           | 1.0025 |
| 1.3000         | 1.0023 | 1.3500           | 1.0013 |
| 1.5300         | 0.9910 | 1.5500           | 1.0041 |
| 1.7400         | 1.0028 | 1.7500           | 1.0049 |
| 1.9400         | 1.0008 | 1.9500           | 1.0044 |
| 2.1400         | 1.0018 | 2.1600           | 1.0037 |
| 2.3500         | 1.0035 | 2.3700           | 1.0046 |
| 2.5500         | 1.0025 | 2.5800           | 1.0047 |

Flight 17 Test point 4

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 10100. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 499.9 Rrho = 4071000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4763                     | 0.1512                      | 0.0608                  | none             |
| Outboard station rake | 0.4808                     | 0.1611                      | 0.0634                  | 0.2 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.1021 | 0.0400           | 0.3090 |
| 0.0500         | 0.3896 | 0.0700           | 0.3192 |
| 0.1100         | 0.5911 | 0.1200           | 0.5558 |
| 0.1700         | 0.7003 | 0.1800           | 0.6764 |
| 0.2200         | 0.7621 | 0.2100           | 0.7411 |
| 0.2700         | 0.8217 | 0.2700           | 0.8102 |
| 0.3200         | 0.8721 | 0.3100           | 0.8652 |
| 0.3600         | 0.9167 | 0.3700           | 0.9151 |
| 0.4100         | 0.9545 | 0.4200           | 0.9552 |
| 0.5100         | 0.9977 | 0.5300           | 0.9985 |
| 0.7200         | 1.0054 | 0.7300           | 1.0049 |
| 0.9100         | 1.0054 | 0.9400           | 1.0060 |
| 1.1100         | 1.0060 | 1.1500           | 1.0030 |
| 1.3000         | 1.0069 | 1.3500           | 1.0023 |
| 1.5300         | 0.9936 | 1.5500           | 1.0049 |
| 1.7400         | 1.0055 | 1.7500           | 1.0055 |
| 1.9400         | 1.0064 | 1.9500           | 1.0061 |
| 2.1400         | 1.0061 | 2.1600           | 1.0040 |
| 2.3500         | 1.0060 | 2.3700           | 1.0052 |
| 2.5500         | 1.0064 | 2.5800           | 1.0043 |

Flight 17 Test point 5

Sweep, deg = 20.0 Mach = 0.70  $\rho$ ,  $\rho_0$  = 10100. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 495.1  $R_{\text{ref}}$  = 405000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.3931                     | 0.1318                      | 0.0531                  | none             |
| Outboard station rake | 0.5596                     | 0.1776                      | 0.0705                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2515             | 0.0400           | 0.3973             |
| 0.0500         | 0.3605             | 0.0700           | 0.2138             |
| 0.1100         | 0.5985             | 0.1200           | 0.5166             |
| 0.1700         | 0.7283             | 0.1800           | 0.6455             |
| 0.2200         | 0.8017             | 0.2100           | 0.7135             |
| 0.2700         | 0.8676             | 0.2700           | 0.7802             |
| 0.3200         | 0.9263             | 0.3100           | 0.8340             |
| 0.3600         | 0.9678             | 0.3700           | 0.8846             |
| 0.4100         | 0.9911             | 0.4200           | 0.9264             |
| 0.5100         | 1.0004             | 0.5300           | 0.9856             |
| 0.7200         | 1.0012             | 0.7300           | 1.0009             |
| 0.9100         | 1.0026             | 0.9400           | 1.0024             |
| 1.1100         | 1.0023             | 1.1500           | 1.0001             |
| 1.3000         | 1.0015             | 1.3500           | 0.9993             |
| 1.5300         | 0.9903             | 1.5500           | 1.0022             |
| 1.7400         | 1.0022             | 1.7500           | 1.0026             |
| 1.9400         | 1.0014             | 1.9500           | 1.0025             |
| 2.1400         | 1.0019             | 2.1600           | 1.0003             |
| 2.3500         | 1.0024             | 2.3700           | 1.0025             |
| 2.5500         | 1.0027             | 2.5800           | 1.0015             |

Flight 17 Test point 6

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 497.9 Rrho = 4069000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7205                     | 0.1580                      | 0.0831                  | none             |
| Outboard station rake | 0.5065                     | 0.1337                      | 0.0639                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5196             | 0.0400           | 0.5061             |
| 0.0500         | 0.5781             | 0.0700           | 0.5870             |
| 0.1100         | 0.6475             | 0.1200           | 0.6702             |
| 0.1700         | 0.7045             | 0.1800           | 0.7339             |
| 0.2200         | 0.7421             | 0.2100           | 0.7775             |
| 0.2700         | 0.7814             | 0.2700           | 0.8281             |
| 0.3200         | 0.8154             | 0.3100           | 0.8708             |
| 0.3600         | 0.8502             | 0.3700           | 0.9107             |
| 0.4100         | 0.8826             | 0.4200           | 0.9458             |
| 0.5100         | 0.9412             | 0.5300           | 0.9907             |
| 0.7200         | 0.9999             | 0.7300           | 1.0012             |
| 0.9100         | 1.0008             | 0.9400           | 1.0026             |
| 1.1100         | 1.0012             | 1.1500           | 1.0004             |
| 1.3000         | 1.0008             | 1.3500           | 0.9980             |
| 1.5300         | 0.9913             | 1.5500           | 1.0012             |
| 1.7400         | 1.0019             | 1.7500           | 1.0007             |
| 1.9400         | 1.0008             | 1.9500           | 1.0020             |
| 2.1400         | 1.0014             | 2.1600           | 1.0003             |
| 2.3500         | 1.0011             | 2.3700           | 1.0013             |
| 2.5500         | 1.0008             | 2.5800           | 1.0016             |

Flight 17 Test point 7

Sweep, deg = 25.3 Mach = 0.71 hp, ft = 10100. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 513.9 Rnpu = 4136000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7260                     | 0.1703                      | 0.0880                  | none             |
| Outboard station rake | 0.5713                     | 0.1505                      | 0.0711                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4935             | 0.0400           | 0.4548             |
| 0.0500         | 0.5570             | 0.0700           | 0.5513             |
| 0.1100         | 0.6296             | 0.1200           | 0.6405             |
| 0.1700         | 0.6866             | 0.1800           | 0.7053             |
| 0.2200         | 0.7234             | 0.2100           | 0.7510             |
| 0.2700         | 0.7643             | 0.2700           | 0.8036             |
| 0.3200         | 0.8003             | 0.3100           | 0.8469             |
| 0.3600         | 0.8348             | 0.3700           | 0.8887             |
| 0.4100         | 0.8667             | 0.4200           | 0.9236             |
| 0.5100         | 0.9273             | 0.5300           | 0.9808             |
| 0.7200         | 0.9982             | 0.7300           | 1.0024             |
| 0.9100         | 1.0000             | 0.9400           | 1.0025             |
| 1.1100         | 1.0016             | 1.1500           | 1.0010             |
| 1.3000         | 1.0012             | 1.3500           | 1.0003             |
| 1.5300         | 0.9917             | 1.5500           | 1.0022             |
| 1.7400         | 1.0021             | 1.7500           | 1.0018             |
| 1.9400         | 1.0014             | 1.9500           | 1.0033             |
| 2.1400         | 1.0013             | 2.1600           | 1.0006             |
| 2.3500         | 1.0010             | 2.3700           | 1.0026             |
| 2.5500         | 1.0014             | 2.5800           | 1.0024             |



Flight 17 Test point 8

Sweep, deg = 25.3 Mach = 0.71 hp, ft = 10100. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 510.5 Rrho = 4117000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7229                     | 0.1669                      | 0.0862                  | none             |
| Outboard station rake | 0.5567                     | 0.1445                      | 0.0680                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4967             | 0.0400           | 0.4565             |
| 0.0500         | 0.5569             | 0.0700           | 0.5547             |
| 0.1100         | 0.6327             | 0.1200           | 0.6438             |
| 0.1700         | 0.6894             | 0.1800           | 0.7152             |
| 0.2200         | 0.7295             | 0.2100           | 0.7616             |
| 0.2700         | 0.7691             | 0.2700           | 0.8154             |
| 0.3200         | 0.8044             | 0.3100           | 0.8588             |
| 0.3600         | 0.8406             | 0.3700           | 0.8996             |
| 0.4100         | 0.8720             | 0.4200           | 0.9372             |
| 0.5100         | 0.9338             | 0.5300           | 0.9887             |
| 0.7200         | 0.9992             | 0.7300           | 1.0014             |
| 0.9100         | 1.0007             | 0.9400           | 1.0023             |
| 1.1100         | 1.0017             | 1.1500           | 1.0003             |
| 1.3000         | 1.0009             | 1.3500           | 0.9989             |
| 1.5300         | 0.9914             | 1.5500           | 1.0014             |
| 1.7400         | 1.0017             | 1.7500           | 1.0011             |
| 1.9400         | 1.0007             | 1.9500           | 1.0019             |
| 2.1400         | 1.0006             | 2.1600           | 1.0002             |
| 2.3500         | 1.0015             | 2.3700           | 1.0020             |
| 2.5500         | 1.0016             | 2.5800           | 1.0018             |

Flight 17 Test point 9

Sweep, deg = 30.1 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 498.8 Rnpu = 4071000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7261                     | 0.1510                      | 0.0819                  | none             |
| Outboard station rake | 0.5547                     | 0.1270                      | 0.0643                  | 0.2 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5860 | 0.0400           | 0.6000 |
| 0.0500         | 0.6160 | 0.0700           | 0.6393 |
| 0.1100         | 0.6692 | 0.1200           | 0.6968 |
| 0.1700         | 0.7175 | 0.1800           | 0.7464 |
| 0.2200         | 0.7519 | 0.2100           | 0.7857 |
| 0.2700         | 0.7890 | 0.2700           | 0.8309 |
| 0.3200         | 0.8208 | 0.3100           | 0.8701 |
| 0.3600         | 0.8542 | 0.3700           | 0.9076 |
| 0.4100         | 0.8851 | 0.4200           | 0.9397 |
| 0.5100         | 0.9400 | 0.5300           | 0.9881 |
| 0.7200         | 0.9985 | 0.7300           | 1.0011 |
| 0.9100         | 1.0006 | 0.9400           | 1.0019 |
| 1.1100         | 1.0012 | 1.1500           | 0.9992 |
| 1.3000         | 1.0010 | 1.3500           | 0.9985 |
| 1.5300         | 0.9896 | 1.5500           | 1.0028 |
| 1.7400         | 1.0024 | 1.7500           | 1.0018 |
| 1.9400         | 1.0011 | 1.9500           | 1.0028 |
| 2.1400         | 1.0023 | 2.1600           | 1.0000 |
| 2.3500         | 1.0015 | 2.3700           | 1.0020 |
| 2.5500         | 1.0018 | 2.5800           | 1.0020 |

Flight 17 Test point 10

Sweep, deg = 30.1 Mach = 0.71 hp, ft = 10100. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 505.9 Rnpu = 4100000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7281                     | 0.1561                      | 0.0840                  | none             |
| Outboard station rake | 0.5631                     | 0.1314                      | 0.0662                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5765             | 0.0400           | 0.5902             |
| 0.0500         | 0.6083             | 0.0700           | 0.6317             |
| 0.1100         | 0.6608             | 0.1200           | 0.6888             |
| 0.1700         | 0.7090             | 0.1800           | 0.7382             |
| 0.2200         | 0.7464             | 0.2100           | 0.7801             |
| 0.2700         | 0.7836             | 0.2700           | 0.8248             |
| 0.3200         | 0.8171             | 0.3100           | 0.8640             |
| 0.3600         | 0.8476             | 0.3700           | 0.9006             |
| 0.4100         | 0.8788             | 0.4200           | 0.9336             |
| 0.5100         | 0.9335             | 0.5300           | 0.9840             |
| 0.7200         | 0.9978             | 0.7300           | 1.0015             |
| 0.9100         | 1.0008             | 0.9400           | 1.0026             |
| 1.1100         | 1.0016             | 1.1500           | 1.0004             |
| 1.3000         | 1.0005             | 1.3500           | 1.0001             |
| 1.5300         | 0.9905             | 1.5500           | 1.0026             |
| 1.7400         | 1.0026             | 1.7500           | 1.0019             |
| 1.9400         | 1.0014             | 1.9500           | 1.0023             |
| 2.1400         | 1.0014             | 2.1600           | 1.0007             |
| 2.3500         | 1.0019             | 2.3700           | 1.0022             |
| 2.5500         | 1.0015             | 2.5800           | 1.0016             |

Flight 17 Test point 11

Sweep, deg = 30.1 Mach = 0.70 hp, ft = 10300. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 496.2 Rrho = 4049000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7357                     | 0.1633                      | 0.0876                  | none             |
| Outboard station rake | 0.5808                     | 0.1385                      | 0.0695                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5697             | 0.0400           | 0.5776             |
| 0.0500         | 0.6024             | 0.0700           | 0.6239             |
| 0.1100         | 0.6556             | 0.1200           | 0.6793             |
| 0.1700         | 0.7031             | 0.1800           | 0.7298             |
| 0.2200         | 0.7372             | 0.2100           | 0.7667             |
| 0.2700         | 0.7733             | 0.2700           | 0.8121             |
| 0.3200         | 0.8048             | 0.3100           | 0.8518             |
| 0.3600         | 0.8359             | 0.3700           | 0.8894             |
| 0.4100         | 0.8668             | 0.4200           | 0.9233             |
| 0.5100         | 0.9223             | 0.5300           | 0.9777             |
| 0.7200         | 0.9952             | 0.7300           | 1.0029             |
| 0.9100         | 1.0012             | 0.9400           | 1.0042             |
| 1.1100         | 1.0027             | 1.1500           | 1.0005             |
| 1.3000         | 1.0010             | 1.3500           | 0.9999             |
| 1.5300         | 0.9911             | 1.5500           | 1.0029             |
| 1.7400         | 1.0018             | 1.7500           | 1.0020             |
| 1.9400         | 1.0010             | 1.9500           | 1.0030             |
| 2.1400         | 1.0016             | 2.1600           | 1.0017             |
| 2.3500         | 1.0018             | 2.3700           | 1.0032             |
| 2.5500         | 1.0025             | 2.5800           | 1.0020             |

Flight 17 Test point 12

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 498.9 Rrho = 4069000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7307                     | 0.1505                      | 0.0825                  | none             |
| Outboard station rake | 0.5671                     | 0.1256                      | 0.0645                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5931             | 0.0400           | 0.6175             |
| 0.0500         | 0.6233             | 0.0700           | 0.6464             |
| 0.1100         | 0.6741             | 0.1200           | 0.7042             |
| 0.1700         | 0.7227             | 0.1800           | 0.7516             |
| 0.2200         | 0.7573             | 0.2100           | 0.7911             |
| 0.2700         | 0.7921             | 0.2700           | 0.8335             |
| 0.3200         | 0.8241             | 0.3100           | 0.8709             |
| 0.3600         | 0.8534             | 0.3700           | 0.9058             |
| 0.4100         | 0.8818             | 0.4200           | 0.9364             |
| 0.5100         | 0.9342             | 0.5300           | 0.9836             |
| 0.7200         | 0.9972             | 0.7300           | 1.0023             |
| 0.9100         | 1.0004             | 0.9400           | 1.0018             |
| 1.1100         | 1.0030             | 1.1500           | 1.0003             |
| 1.3000         | 1.0022             | 1.3500           | 0.9993             |
| 1.5300         | 0.9862             | 1.5500           | 1.0021             |
| 1.7400         | 1.0034             | 1.7500           | 1.0017             |
| 1.9400         | 1.0023             | 1.9500           | 1.0034             |
| 2.1400         | 1.0012             | 2.1600           | 1.0009             |
| 2.3500         | 1.0018             | 2.3700           | 1.0020             |
| 2.5500         | 1.0022             | 2.5800           | 1.0026             |

Flight 17 Test point 13

Sweep, deg = 34.9 Mach = 0.71 hp, ft = 10200. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 502.9 Rrho = 4079000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7301                     | 0.1549                      | 0.0845                  | none             |
| Outboard station rake | 0.5740                     | 0.1294                      | 0.0661                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5876             | 0.0400           | 0.6106             |
| 0.0500         | 0.6175             | 0.0700           | 0.6420             |
| 0.1100         | 0.6694             | 0.1200           | 0.6980             |
| 0.1700         | 0.7187             | 0.1800           | 0.7455             |
| 0.2200         | 0.7513             | 0.2100           | 0.7843             |
| 0.2700         | 0.7873             | 0.2700           | 0.8273             |
| 0.3200         | 0.8169             | 0.3100           | 0.8647             |
| 0.3600         | 0.8474             | 0.3700           | 0.9007             |
| 0.4100         | 0.8747             | 0.4200           | 0.9317             |
| 0.5100         | 0.9279             | 0.5300           | 0.9804             |
| 0.7200         | 0.9971             | 0.7300           | 1.0033             |
| 0.9100         | 1.0009             | 0.9400           | 1.0027             |
| 1.1100         | 1.0023             | 1.1500           | 1.0011             |
| 1.3000         | 1.0026             | 1.3500           | 0.9993             |
| 1.5300         | 0.9857             | 1.5500           | 1.0022             |
| 1.7400         | 1.0024             | 1.7500           | 1.0011             |
| 1.9400         | 1.0027             | 1.9500           | 1.0037             |
| 2.1400         | 1.0019             | 2.1600           | 1.0012             |
| 2.3500         | 1.0019             | 2.3700           | 1.0028             |
| 2.5500         | 1.0023             | 2.5800           | 1.0021             |

Flight 17 Test point 14

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 10100. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 496.3 Rnpu = 4053000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7359                     | 0.1569                      | 0.0856                  | none             |
| Outboard station rake | 0.5832                     | 0.1308                      | 0.0670                  | 0.2 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5856 | 0.0400           | 0.6101 |
| 0.0500         | 0.6137 | 0.0700           | 0.6404 |
| 0.1100         | 0.6680 | 0.1200           | 0.6970 |
| 0.1700         | 0.7148 | 0.1800           | 0.7443 |
| 0.2200         | 0.7477 | 0.2100           | 0.7832 |
| 0.2700         | 0.7837 | 0.2700           | 0.8255 |
| 0.3200         | 0.8142 | 0.3100           | 0.8622 |
| 0.3600         | 0.8445 | 0.3700           | 0.8968 |
| 0.4100         | 0.8731 | 0.4200           | 0.9290 |
| 0.5100         | 0.9254 | 0.5300           | 0.9787 |
| 0.7200         | 0.9954 | 0.7300           | 1.0027 |
| 0.9100         | 1.0014 | 0.9400           | 1.0036 |
| 1.1100         | 1.0025 | 1.1500           | 1.0015 |
| 1.3000         | 1.0019 | 1.3500           | 0.9995 |
| 1.5300         | 0.9872 | 1.5500           | 1.0020 |
| 1.7400         | 1.0032 | 1.7500           | 1.0016 |
| 1.9400         | 1.0021 | 1.9500           | 1.0033 |
| 2.1400         | 1.0017 | 2.1600           | 1.0014 |
| 2.3500         | 1.0023 | 2.3700           | 1.0032 |
| 2.5500         | 1.0024 | 2.5800           | 1.0024 |

Flight 17 Test point 15

Sweep, deg = 20.1 Mach = 0.60 hp, ft = 10000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 367.8 Rrho = 3452000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4230                     | 0.1120                      | 0.0539                  | none             |
| Outboard station rake | 0.4559                     | 0.1303                      | 0.0573                  | 0.2 X/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3773             | 0.0400           | 0.3148             |
| 0.0500         | 0.5259             | 0.0700           | 0.5025             |
| 0.1100         | 0.6684             | 0.1200           | 0.6488             |
| 0.1700         | 0.7635             | 0.1800           | 0.7404             |
| 0.2200         | 0.8230             | 0.2100           | 0.7930             |
| 0.2700         | 0.8778             | 0.2700           | 0.8552             |
| 0.3200         | 0.9261             | 0.3100           | 0.9045             |
| 0.3600         | 0.9645             | 0.3700           | 0.9468             |
| 0.4100         | 0.9875             | 0.4200           | 0.9790             |
| 0.5100         | 0.9998             | 0.5300           | 1.0002             |
| 0.7200         | 1.0022             | 0.7300           | 1.0017             |
| 0.9100         | 1.0015             | 0.9400           | 1.0041             |
| 1.1100         | 1.0025             | 1.1500           | 1.0012             |
| 1.3000         | 1.0026             | 1.3500           | 0.9984             |
| 1.5300         | 0.9895             | 1.5500           | 1.0037             |
| 1.7400         | 1.0036             | 1.7500           | 1.0025             |
| 1.9400         | 1.0018             | 1.9500           | 1.0025             |
| 2.1400         | 1.0018             | 2.1600           | 1.0005             |
| 2.3500         | 1.0035             | 2.3700           | 1.0037             |
| 2.5500         | 1.0028             | 2.5800           | 1.0024             |



Flight 17 Test point 16

Sweep, deg = 26.2 Mach = 0.60 hp, ft = 10000. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 370.7 Rho = 3466000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5595                     | 0.1212                      | 0.0667                  | none             |
| Outboard station rake | 0.4451                     | 0.1054                      | 0.0529                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5850             | 0.0400           | 0.5802             |
| 0.0500         | 0.6285             | 0.0700           | 0.6398             |
| 0.1100         | 0.6919             | 0.1200           | 0.7121             |
| 0.1700         | 0.7494             | 0.1800           | 0.7751             |
| 0.2200         | 0.7886             | 0.2100           | 0.8217             |
| 0.2700         | 0.8313             | 0.2700           | 0.8773             |
| 0.3200         | 0.8667             | 0.3100           | 0.9211             |
| 0.3600         | 0.9013             | 0.3700           | 0.9585             |
| 0.4100         | 0.9310             | 0.4200           | 0.9870             |
| 0.5100         | 0.9781             | 0.5300           | 0.9995             |
| 0.7200         | 1.0030             | 0.7300           | 1.0011             |
| 0.9100         | 1.0011             | 0.9400           | 1.0021             |
| 1.1100         | 1.0029             | 1.1500           | 0.9999             |
| 1.3000         | 1.0037             | 1.3500           | 0.9983             |
| 1.5300         | 0.9931             | 1.5500           | 1.0022             |
| 1.7400         | 1.0046             | 1.7500           | 1.0016             |
| 1.9400         | 1.0031             | 1.9500           | 1.0021             |
| 2.1400         | 1.0041             | 2.1600           | 1.0012             |
| 2.3500         | 1.0033             | 2.3700           | 1.0019             |
| 2.5500         | 1.0031             | 2.5800           | 1.0029             |

Flight 17 Test point 17

Sweep, deg = 23.6 Mach = 0.60 hp, ft = 10300. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 364.3 Rrho = 3422000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4476                     | 0.1062                      | 0.0560                  | none             |
| Outboard station rake | 0.4449                     | 0.1085                      | 0.0534                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5476             | 0.0400           | 0.5360             |
| 0.0500         | 0.6167             | 0.0700           | 0.6171             |
| 0.1100         | 0.6992             | 0.1200           | 0.7046             |
| 0.1700         | 0.7712             | 0.1800           | 0.7737             |
| 0.2200         | 0.8157             | 0.2100           | 0.8203             |
| 0.2700         | 0.8655             | 0.2700           | 0.8778             |
| 0.3200         | 0.9069             | 0.3100           | 0.9218             |
| 0.3600         | 0.9444             | 0.3700           | 0.9583             |
| 0.4100         | 0.9725             | 0.4200           | 0.9875             |
| 0.5100         | 0.9993             | 0.5300           | 1.0008             |
| 0.7200         | 1.0034             | 0.7300           | 1.0011             |
| 0.9100         | 1.0029             | 0.9400           | 1.0029             |
| 1.1100         | 1.0038             | 1.1500           | 0.9993             |
| 1.3000         | 1.0040             | 1.3500           | 0.9971             |
| 1.5300         | 0.9926             | 1.5500           | 1.0012             |
| 1.7400         | 1.0058             | 1.7500           | 1.0021             |
| 1.9400         | 1.0030             | 1.9500           | 1.0026             |
| 2.1400         | 1.0041             | 2.1600           | 0.9998             |
| 2.3500         | 1.0047             | 2.3700           | 1.0020             |
| 2.5500         | 1.0038             | 2.5800           | 1.0036             |

Flight 17 Test point 18

Sweep, deg = 20.1 Mach = 0.60 hp, ft = 9900. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = -5.2 QBAR, lb/ft<sup>2</sup> = 363.0 Rrho = 3429000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4779                     | 0.1542                      | 0.0601                  | none             |
| Outboard station rake | 0.4735                     | 0.1596                      | 0.0659                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4666             | 0.0400           | 0.5397             |
| 0.0500         | 0.0991             | 0.0700           | 0.2639             |
| 0.1100         | 0.5159             | 0.1200           | 0.4590             |
| 0.1700         | 0.6751             | 0.1800           | 0.6338             |
| 0.2200         | 0.7570             | 0.2100           | 0.7180             |
| 0.2700         | 0.8221             | 0.2700           | 0.8006             |
| 0.3200         | 0.8797             | 0.3100           | 0.8650             |
| 0.3600         | 0.9285             | 0.3700           | 0.9169             |
| 0.4100         | 0.9607             | 0.4200           | 0.9587             |
| 0.5100         | 0.9974             | 0.5300           | 0.9966             |
| 0.7200         | 1.0048             | 0.7300           | 1.0033             |
| 0.9100         | 1.0031             | 0.9400           | 1.0053             |
| 1.1100         | 1.0044             | 1.1500           | 1.0025             |
| 1.3000         | 1.0068             | 1.3500           | 1.0007             |
| 1.5300         | 0.9913             | 1.5500           | 1.0057             |
| 1.7400         | 1.0071             | 1.7500           | 1.0050             |
| 1.9400         | 1.0066             | 1.9500           | 1.0056             |
| 2.1400         | 1.0050             | 2.1600           | 1.0046             |
| 2.3500         | 1.0062             | 2.3700           | 1.0057             |
| 2.5500         | 1.0066             | 2.5800           | 1.0062             |

Flight 17 Test point 19

Sweep, deg = 20.1 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 384.6 Rrho = 3141000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4228                     | 0.1422                      | 0.0562                  | none             |
| Outboard station rake | 0.5399                     | 0.1843                      | 0.0711                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2811             | 0.0400           | 0.4824             |
| 0.0500         | 0.3105             | 0.0700           | 0.2310             |
| 0.1100         | 0.5644             | 0.1200           | 0.4346             |
| 0.1700         | 0.6984             | 0.1800           | 0.5936             |
| 0.2200         | 0.7765             | 0.2100           | 0.6703             |
| 0.2700         | 0.8489             | 0.2700           | 0.7557             |
| 0.3200         | 0.9092             | 0.3100           | 0.8230             |
| 0.3600         | 0.9574             | 0.3700           | 0.8834             |
| 0.4100         | 0.9838             | 0.4200           | 0.9351             |
| 0.5100         | 1.0003             | 0.5300           | 0.9951             |
| 0.7200         | 1.0032             | 0.7300           | 1.0005             |
| 0.9100         | 1.0005             | 0.9400           | 1.0010             |
| 1.1100         | 1.0023             | 1.1500           | 0.9998             |
| 1.3000         | 1.0019             | 1.3500           | 0.9980             |
| 1.5300         | 0.9910             | 1.5500           | 1.0016             |
| 1.7400         | 1.0035             | 1.7500           | 1.0017             |
| 1.9400         | 1.0035             | 1.9500           | 1.0008             |
| 2.1400         | 1.0035             | 2.1600           | 0.9998             |
| 2.3500         | 1.0024             | 2.3700           | 1.0004             |
| 2.5500         | 1.0040             | 2.5800           | 1.0012             |

Flight 17 Test point 20

Sweep, deg = 20.1 Mach = 0.75 hp, ft = 20100. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 377.0 Rnpu = 3101000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4330                     | 0.1292                      | 0.0509                  | none             |
| Outboard station rake | 0.5447                     | 0.1866                      | 0.0725                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1352             | 0.0400           | 0.4925             |
| 0.0500         | 0.4094             | 0.0700           | 0.2432             |
| 0.1100         | 0.6319             | 0.1200           | 0.4263             |
| 0.1700         | 0.7516             | 0.1800           | 0.5862             |
| 0.2200         | 0.8188             | 0.2100           | 0.6657             |
| 0.2700         | 0.8796             | 0.2700           | 0.7494             |
| 0.3200         | 0.9282             | 0.3100           | 0.8160             |
| 0.3600         | 0.9636             | 0.3700           | 0.8769             |
| 0.4100         | 0.9812             | 0.4200           | 0.9299             |
| 0.5100         | 0.9986             | 0.5300           | 0.9924             |
| 0.7200         | 1.0027             | 0.7300           | 1.0008             |
| 0.9100         | 1.0022             | 0.9400           | 1.0020             |
| 1.1100         | 1.0022             | 1.1500           | 0.9991             |
| 1.3000         | 1.0027             | 1.3500           | 0.9973             |
| 1.5300         | 0.9923             | 1.5500           | 1.0012             |
| 1.7400         | 1.0035             | 1.7500           | 1.0015             |
| 1.9400         | 1.0040             | 1.9500           | 1.0025             |
| 2.1400         | 1.0033             | 2.1600           | 1.0005             |
| 2.3500         | 1.0032             | 2.3700           | 1.0013             |
| 2.5500         | 1.0040             | 2.5800           | 1.0015             |

Flight 17 Test point 21

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 381.4 Rho = 3123000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6641                     | 0.1181                      | 0.0605                  | none             |
| Outboard station rake | 0.7070                     | 0.2128                      | 0.0819                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4809             | 0.0400           | 0.5651             |
| 0.0500         | 0.6178             | 0.0700           | 0.4075             |
| 0.1100         | 0.7396             | 0.1200           | 0.2495             |
| 0.1700         | 0.8150             | 0.1800           | 0.4873             |
| 0.2200         | 0.8479             | 0.2100           | 0.5859             |
| 0.2700         | 0.8785             | 0.2400           | 0.6800             |
| 0.3200         | 0.8999             | 0.3100           | 0.7556             |
| 0.3600         | 0.9218             | 0.3700           | 0.8225             |
| 0.4100         | 0.9351             | 0.4200           | 0.8873             |
| 0.5100         | 0.9655             | 0.5300           | 0.9809             |
| 0.7200         | 1.0017             | 0.7300           | 1.0021             |
| 0.9100         | 1.0034             | 0.9400           | 1.0030             |
| 1.1100         | 1.0036             | 1.1500           | 1.0000             |
| 1.3000         | 1.0045             | 1.3500           | 0.9966             |
| 1.5300         | 0.9932             | 1.5500           | 1.0001             |
| 1.7400         | 1.0047             | 1.7500           | 1.0001             |
| 1.9400         | 1.0061             | 1.9500           | 1.0011             |
| 2.1400         | 1.0052             | 2.1600           | 0.9982             |
| 2.3500         | 1.0062             | 2.3700           | 0.9996             |
| 2.5500         | 1.0058             | 2.5800           | 0.9991             |

Flight 17 Test point 22

Sweep, deg = 21.3 Mach = 0.80 hp, ft = 20800. Angle of attack, deg = -0.2  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 423.9 Rrho = 3285000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7181                     | 0.2767                      | 0.0919                  | none             |
| Outboard station rake | 0.7134                     | 0.2373                      | 0.0758                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4540             | 0.0400           | 0.5180             |
| 0.0500         | 0.3967             | 0.0700           | 0.4447             |
| 0.1100         | 0.1712             | 0.1200           | 0.1330             |
| 0.1700         | 0.3471             | 0.1800           | 0.3713             |
| 0.2200         | 0.4719             | 0.2100           | 0.5085             |
| 0.2700         | 0.5713             | 0.2700           | 0.6360             |
| 0.3200         | 0.6560             | 0.3100           | 0.7311             |
| 0.3600         | 0.7315             | 0.3700           | 0.8207             |
| 0.4100         | 0.7981             | 0.4200           | 0.8919             |
| 0.5100         | 0.9098             | 0.5300           | 0.9833             |
| 0.7200         | 1.0007             | 0.7300           | 1.0013             |
| 0.9100         | 1.0010             | 0.9400           | 1.0018             |
| 1.1100         | 1.0018             | 1.1500           | 1.0004             |
| 1.3000         | 1.0017             | 1.3500           | 0.9980             |
| 1.5300         | 0.9929             | 1.5500           | 1.0011             |
| 1.7400         | 1.0014             | 1.7500           | 1.0015             |
| 1.9400         | 1.0011             | 1.9500           | 1.0019             |
| 2.1400         | 1.0011             | 2.1600           | 0.9997             |
| 2.3500         | 1.0009             | 2.3700           | 0.9973             |
| 2.5500         | 0.9974             | 2.5800           | 0.9970             |

Flight 17 Test point 23

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20900. Angle of attack, deg = -0.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 421.0 Rrho = 3270000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7152                     | 0.2671                      | 0.0898                  | none             |
| Outboard station rake | 0.7282                     | 0.2382                      | 0.0797                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5047             | 0.0400           | 0.5384             |
| 0.0500         | 0.4701             | 0.0700           | 0.4764             |
| 0.1100         | 0.3040             | 0.1200           | 0.2264             |
| 0.1700         | 0.2469             | 0.1800           | 0.3261             |
| 0.2200         | 0.4280             | 0.2100           | 0.4787             |
| 0.2700         | 0.5517             | 0.2700           | 0.6168             |
| 0.3200         | 0.6530             | 0.3100           | 0.7172             |
| 0.3600         | 0.7414             | 0.3700           | 0.8093             |
| 0.4100         | 0.8172             | 0.4200           | 0.8832             |
| 0.5100         | 0.9338             | 0.5300           | 0.9816             |
| 0.7200         | 1.0013             | 0.7300           | 1.0001             |
| 0.9100         | 1.0008             | 0.9400           | 1.0021             |
| 1.1100         | 1.0017             | 1.1500           | 1.0011             |
| 1.3000         | 1.0011             | 1.3500           | 0.9990             |
| 1.5300         | 0.9929             | 1.5500           | 1.0011             |
| 1.7400         | 1.0027             | 1.7500           | 1.0012             |
| 1.9400         | 1.0016             | 1.9500           | 1.0013             |
| 2.1400         | 1.0013             | 2.1600           | 0.9995             |
| 2.3500         | 0.9993             | 2.3700           | 0.9980             |
| 2.5500         | 0.9972             | 2.5800           | 0.9966             |



Flight 17 Test point 24

Sweep, deg = 20.1 Mach = 0.80 hp, ft = 21000. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 418.3 Rrho = 3251000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5318                     | 0.2313                      | 0.0724                  | none             |
| Outboard station rake | 0.7231                     | 0.2552                      | 0.0900                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5718             | 0.0400           | 0.6552             |
| 0.0500         | 0.5638             | 0.0700           | 0.6408             |
| 0.1100         | 0.3784             | 0.1200           | 0.4931             |
| 0.1700         | 0.1834             | 0.1800           | 0.3061             |
| 0.2200         | 0.4426             | 0.2100           | 0.2367             |
| 0.2700         | 0.6060             | 0.2700           | 0.4754             |
| 0.3200         | 0.7358             | 0.3100           | 0.6107             |
| 0.3600         | 0.8306             | 0.3700           | 0.7236             |
| 0.4100         | 0.9077             | 0.4200           | 0.8143             |
| 0.5100         | 0.9845             | 0.5300           | 0.9551             |
| 0.7200         | 1.0036             | 0.7300           | 1.0014             |
| 0.9100         | 1.0038             | 0.9400           | 1.0016             |
| 1.1100         | 1.0041             | 1.1500           | 0.9998             |
| 1.3000         | 1.0041             | 1.3500           | 0.9984             |
| 1.5300         | 0.9957             | 1.5500           | 1.0018             |
| 1.7400         | 1.0049             | 1.7500           | 1.0015             |
| 1.9400         | 1.0022             | 1.9500           | 1.0005             |
| 2.1400         | 1.0001             | 2.1600           | 0.9991             |
| 2.3500         | 0.9990             | 2.3700           | 0.9974             |
| 2.5500         | 0.9979             | 2.5900           | 0.9985             |

Flight 17 Test point 25

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20400. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 432.2 Rnpu = 3338000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7077                     | 0.2665                      | 0.0878                  | none             |
| Outboard station rake | 0.7146                     | 0.2494                      | 0.0825                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5134             | 0.0400           | 0.5452             |
| 0.0500         | 0.4787             | 0.0700           | 0.4928             |
| 0.1100         | 0.3149             | 0.1200           | 0.2838             |
| 0.1700         | 0.2379             | 0.1800           | 0.2576             |
| 0.2200         | 0.4306             | 0.2100           | 0.4383             |
| 0.2700         | 0.5587             | 0.2700           | 0.5810             |
| 0.3200         | 0.6648             | 0.3100           | 0.6872             |
| 0.3600         | 0.7467             | 0.3700           | 0.7847             |
| 0.4100         | 0.8233             | 0.4200           | 0.8637             |
| 0.5100         | 0.9367             | 0.5300           | 0.9727             |
| 0.7200         | 1.0034             | 0.7300           | 1.0020             |
| 0.9100         | 1.0038             | 0.9400           | 1.0030             |
| 1.1100         | 1.0046             | 1.1500           | 1.0009             |
| 1.3000         | 1.0050             | 1.3500           | 1.0002             |
| 1.5300         | 0.9956             | 1.5500           | 1.0023             |
| 1.7400         | 1.0041             | 1.7500           | 1.0021             |
| 1.9400         | 1.0036             | 1.9500           | 1.0020             |
| 2.1400         | 0.9955             | 2.1600           | 0.9978             |
| 2.3500         | 0.9935             | 2.3700           | 0.9952             |
| 2.5500         | 0.9911             | 2.5800           | 0.9945             |

Flight 17 Test point 26

Sweep, deg = 20.0 Mach = 0.81 hp, ft = 20500. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 433.3 Rrho = 3337000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6207                     | 0.2680                      | 0.0729                  | none             |
| Outboard station rake | 0.9398                     | 0.4508                      | 0.0968                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3205             | 0.0400           | 0.0725             |
| 0.0500         | 0.3186             | 0.0700           | 0.0513             |
| 0.1100         | 0.1736             | 0.1200           | 0.0660             |
| 0.1700         | 0.2413             | 0.1800           | 0.0855             |
| 0.2200         | 0.3797             | 0.2100           | 0.1144             |
| 0.2700         | 0.5177             | 0.2700           | 0.2195             |
| 0.3200         | 0.6495             | 0.3100           | 0.3266             |
| 0.3600         | 0.7661             | 0.3700           | 0.4249             |
| 0.4100         | 0.8751             | 0.4200           | 0.5236             |
| 0.5100         | 0.9889             | 0.5300           | 0.7071             |
| 0.7200         | 1.0084             | 0.7300           | 0.9514             |
| 0.9100         | 1.0084             | 0.9400           | 1.0001             |
| 1.1100         | 1.0078             | 1.1500           | 1.0004             |
| 1.3000         | 1.0070             | 1.3500           | 0.9993             |
| 1.5300         | 0.9967             | 1.5500           | 1.0018             |
| 1.7400         | 1.0063             | 1.7500           | 1.0018             |
| 1.9400         | 0.9993             | 1.9500           | 1.0018             |
| 2.1400         | 0.9922             | 2.1600           | 0.9996             |
| 2.3500         | 0.9880             | 2.3700           | 0.9989             |
| 2.5500         | 0.9859             | 2.5800           | 0.9962             |

Flight 18 Test point 1

Sweep, deg = 24.9 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 438.9 Rrho = 3387000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9420                     | 0.2797                      | 0.0922                  | none             |
| Outboard station rake | 0.7251                     | 0.2399                      | 0.0820                  | 0.2 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.2087 | 0.0400           | 0.4198 |
| 0.0500         | 0.0557 | 0.0700           | 0.3189 |
| 0.1100         | 0.3175 | 0.1200           | 0.2640 |
| 0.1700         | 0.4494 | 0.1800           | 0.4472 |
| 0.2200         | 0.5236 | 0.2100           | 0.5528 |
| 0.2700         | 0.6002 | 0.2700           | 0.6558 |
| 0.3200         | 0.6680 | 0.3100           | 0.7370 |
| 0.3600         | 0.7331 | 0.3700           | 0.8132 |
| 0.4100         | 0.7942 | 0.4200           | 0.8740 |
| 0.5100         | 0.8901 | 0.5300           | 0.9645 |
| 0.7200         | 0.9977 | 0.7300           | 1.0008 |
| 0.9100         | 0.9997 | 0.9400           | 1.0017 |
| 1.1100         | 1.0005 | 1.1500           | 1.0001 |
| 1.3000         | 0.9999 | 1.3500           | 0.9987 |
| 1.5300         | 0.9987 | 1.5500           | 1.0011 |
| 1.7400         | 1.0006 | 1.7500           | 1.0016 |
| 1.9400         | 1.0010 | 1.9500           | 1.0011 |
| 2.1400         | 1.0002 | 2.1600           | 0.9998 |
| 2.3500         | 1.0004 | 2.3700           | 0.9976 |
| 2.5500         | 0.9991 | 2.5800           | 0.9976 |

Flight 18 Test point 2

Sweep, deg = 24.9 Mach = 0.80 hp, ft = 20200. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 435.9 Rnpu = 3367000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7169                     | 0.2709                      | 0.0901                  | none             |
| Outboard station rake | 0.7208                     | 0.2459                      | 0.0809                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3749             | 0.0400           | 0.4174             |
| 0.0500         | 0.2989             | 0.0700           | 0.3235             |
| 0.1100         | 0.2105             | 0.1200           | 0.2304             |
| 0.1700         | 0.4286             | 0.1800           | 0.4321             |
| 0.2200         | 0.5234             | 0.2100           | 0.5403             |
| 0.2700         | 0.6149             | 0.2700           | 0.6477             |
| 0.3200         | 0.6891             | 0.3100           | 0.7317             |
| 0.3600         | 0.7556             | 0.3700           | 0.8101             |
| 0.4100         | 0.8142             | 0.4200           | 0.8733             |
| 0.5100         | 0.9080             | 0.5300           | 0.9626             |
| 0.7200         | 1.0012             | 0.7300           | 1.0016             |
| 0.9100         | 1.0021             | 0.9400           | 1.0023             |
| 1.1100         | 1.0030             | 1.1500           | 1.0007             |
| 1.3000         | 1.0022             | 1.3500           | 0.9992             |
| 1.5300         | 1.0007             | 1.5500           | 1.0023             |
| 1.7400         | 1.0029             | 1.7500           | 1.0021             |
| 1.9400         | 1.0018             | 1.9500           | 1.0028             |
| 2.1400         | 1.0012             | 2.1600           | 0.9983             |
| 2.3500         | 0.9945             | 2.3700           | 0.9959             |
| 2.5500         | 0.9903             | 2.5800           | 0.9950             |

Flight 18 Test point 3

Sweep, deg = 30.0 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 437.0 Rrho = 3380000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9124                     | 0.2242                      | 0.1039                  | none             |
| Outboard station rake | 0.7172                     | 0.1955                      | 0.0865                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4496             | 0.0400           | 0.4234             |
| 0.0500         | 0.4748             | 0.0700           | 0.4753             |
| 0.1100         | 0.5269             | 0.1200           | 0.5452             |
| 0.1700         | 0.5765             | 0.1800           | 0.6020             |
| 0.2200         | 0.6128             | 0.2100           | 0.6474             |
| 0.2700         | 0.6641             | 0.2700           | 0.7099             |
| 0.3200         | 0.7051             | 0.3100           | 0.7647             |
| 0.3600         | 0.7533             | 0.3700           | 0.8227             |
| 0.4100         | 0.7997             | 0.4200           | 0.8768             |
| 0.5100         | 0.8882             | 0.5300           | 0.9644             |
| 0.7200         | 0.9968             | 0.7300           | 1.0021             |
| 0.9100         | 1.0000             | 0.9400           | 1.0032             |
| 1.1100         | 1.0011             | 1.1500           | 0.9997             |
| 1.3000         | 1.0002             | 1.3500           | 0.9980             |
| 1.5300         | 0.9976             | 1.5500           | 1.0013             |
| 1.7400         | 1.0009             | 1.7500           | 1.0001             |
| 1.9400         | 1.0003             | 1.9500           | 1.0003             |
| 2.1400         | 1.0001             | 2.1600           | 0.9972             |
| 2.3500         | 1.0004             | 2.3700           | 0.9979             |
| 2.5500         | 0.9993             | 2.5800           | 1.0000             |

Flight 18 Test point 4

Sweep, deg = 30.0 Mach = 0.81 hp, ft = 20300. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 435.7 Rrho = 3365000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9453                     | 0.2210                      | 0.1026                  | none             |
| Outboard station rake | 0.7265                     | 0.1894                      | 0.0851                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4499             | 0.0400           | 0.4365             |
| 0.0500         | 0.4758             | 0.0700           | 0.4933             |
| 0.1100         | 0.5260             | 0.1200           | 0.5601             |
| 0.1700         | 0.5835             | 0.1800           | 0.6187             |
| 0.2200         | 0.6175             | 0.2100           | 0.6624             |
| 0.2700         | 0.6686             | 0.2700           | 0.7240             |
| 0.3200         | 0.7128             | 0.3100           | 0.7754             |
| 0.3600         | 0.7601             | 0.3700           | 0.8308             |
| 0.4100         | 0.8061             | 0.4200           | 0.8824             |
| 0.5100         | 0.8936             | 0.5300           | 0.9665             |
| 0.7200         | 0.9972             | 0.7300           | 1.0005             |
| 0.9100         | 0.9996             | 0.9400           | 1.0018             |
| 1.1100         | 0.9999             | 1.1500           | 0.9997             |
| 1.3000         | 1.0000             | 1.3500           | 0.9979             |
| 1.5300         | 0.9982             | 1.5500           | 1.0010             |
| 1.7400         | 1.0011             | 1.7500           | 0.9999             |
| 1.9400         | 1.0014             | 1.9500           | 1.0008             |
| 2.1400         | 0.9996             | 2.1600           | 0.9991             |
| 2.3500         | 1.0008             | 2.3700           | 0.9994             |
| 2.5500         | 0.9994             | 2.5800           | 0.9998             |

Flight 18 Test point 5

Sweep, deg = 30.0 Mach = 0.81 hp, ft = 20200. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 436.8 Rrho = 3377000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9145                     | 0.2652                      | 0.1101                  | none             |
| Outboard station rake | 0.7226                     | 0.2593                      | 0.0951                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3485             | 0.0400           | 0.2336             |
| 0.0500         | 0.3724             | 0.0700           | 0.2938             |
| 0.1100         | 0.4246             | 0.1200           | 0.3774             |
| 0.1700         | 0.4839             | 0.1800           | 0.4527             |
| 0.2200         | 0.5305             | 0.2100           | 0.5143             |
| 0.2700         | 0.5939             | 0.2700           | 0.5951             |
| 0.3200         | 0.6443             | 0.3100           | 0.6683             |
| 0.3600         | 0.7043             | 0.3700           | 0.7415             |
| 0.4100         | 0.7611             | 0.4200           | 0.8128             |
| 0.5100         | 0.8603             | 0.5300           | 0.9306             |
| 0.7200         | 0.9910             | 0.7300           | 1.0024             |
| 0.9100         | 0.9998             | 0.9400           | 1.0042             |
| 1.1100         | 1.0011             | 1.1500           | 0.9997             |
| 1.3000         | 1.0010             | 1.3500           | 0.9989             |
| 1.5300         | 0.9975             | 1.5500           | 1.0014             |
| 1.7400         | 1.0010             | 1.7500           | 1.0023             |
| 1.9400         | 1.0002             | 1.9500           | 1.0004             |
| 2.1400         | 1.0003             | 2.1600           | 0.9966             |
| 2.3500         | 0.9992             | 2.3700           | 0.9971             |
| 2.5500         | 0.9999             | 2.5800           | 0.9970             |



Flight 18 Test point 6

Sweep, deg = 34.9 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 438.1 Rrho = 3390000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9358                     | 0.2007                      | 0.0997                  | none             |
| Outboard station rake | 0.7235                     | 0.1728                      | 0.0824                  | 0.2 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5167 | 0.0400           | 0.5230 |
| 0.0500         | 0.5451 | 0.0700           | 0.5602 |
| 0.1100         | 0.5892 | 0.1200           | 0.6121 |
| 0.1700         | 0.6407 | 0.1800           | 0.6631 |
| 0.2200         | 0.6745 | 0.2100           | 0.7040 |
| 0.2700         | 0.7159 | 0.2700           | 0.7574 |
| 0.3200         | 0.7520 | 0.3100           | 0.8035 |
| 0.3600         | 0.7897 | 0.3700           | 0.8482 |
| 0.4100         | 0.8257 | 0.4200           | 0.8907 |
| 0.5100         | 0.8930 | 0.5300           | 0.9599 |
| 0.7200         | 0.9918 | 0.7300           | 1.0012 |
| 0.9100         | 0.9991 | 0.9400           | 1.0024 |
| 1.1100         | 1.0011 | 1.1500           | 0.9988 |
| 1.3000         | 1.0011 | 1.3500           | 0.9972 |
| 1.5300         | 0.9959 | 1.5500           | 0.9994 |
| 1.7400         | 1.0013 | 1.7500           | 1.0009 |
| 1.9400         | 0.9998 | 1.9500           | 1.0006 |
| 2.1400         | 1.0007 | 2.1600           | 0.9992 |
| 2.3500         | 1.0011 | 2.3700           | 1.0003 |
| 2.5500         | 0.9999 | 2.5800           | 1.0001 |

Flight 18 Test point 7

Sweep, deg = 34.9 Mach = 0.80 hp, ft = 20200. Angle of attack, deg = -0.1  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 427.0 Rnpu = 3329000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7317                     | 0.1806                      | 0.0914                  | none             |
| Outboard station rake | 0.5779                     | 0.1529                      | 0.0729                  | 0.2 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5391 | 0.0400           | 0.5497 |
| 0.0500         | 0.5679 | 0.0700           | 0.5829 |
| 0.1100         | 0.6187 | 0.1200           | 0.6412 |
| 0.1700         | 0.6667 | 0.1800           | 0.6959 |
| 0.2200         | 0.7044 | 0.2100           | 0.7387 |
| 0.2700         | 0.7457 | 0.2700           | 0.7896 |
| 0.3200         | 0.7832 | 0.3100           | 0.8362 |
| 0.3600         | 0.8212 | 0.3700           | 0.8778 |
| 0.4100         | 0.8540 | 0.4200           | 0.9156 |
| 0.5100         | 0.9161 | 0.5300           | 0.9764 |
| 0.7200         | 0.9961 | 0.7300           | 1.0031 |
| 0.9100         | 1.0010 | 0.9400           | 1.0034 |
| 1.1100         | 1.0016 | 1.1500           | 1.0017 |
| 1.3000         | 1.0015 | 1.3500           | 0.9999 |
| 1.5300         | 0.9904 | 1.5500           | 1.0025 |
| 1.7400         | 1.0017 | 1.7500           | 1.0023 |
| 1.9400         | 1.0013 | 1.9500           | 1.0037 |
| 2.1400         | 1.0019 | 2.1600           | 1.0005 |
| 2.3500         | 1.0024 | 2.3700           | 1.0026 |
| 2.5500         | 1.0023 | 2.5800           | 1.0040 |

Flight 18 Test point 8

Sweep, deg = 34.9 Mach = 0.80 hp, ft = 19900. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 440.1 Rrho = 3394000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.900                      | 0.2038                      | 0.1006                  | none             |
| Outboard station rake | 0.7243                     | 0.1752                      | 0.0833                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5154             | 0.0400           | 0.5179             |
| 0.0500         | 0.5385             | 0.0700           | 0.5510             |
| 0.1100         | 0.5866             | 0.1200           | 0.6077             |
| 0.1700         | 0.6303             | 0.1800           | 0.6567             |
| 0.2200         | 0.6690             | 0.2100           | 0.7005             |
| 0.2700         | 0.7123             | 0.2700           | 0.7546             |
| 0.3200         | 0.7459             | 0.3100           | 0.8026             |
| 0.3600         | 0.7854             | 0.3700           | 0.8472             |
| 0.4100         | 0.8199             | 0.4200           | 0.8882             |
| 0.5100         | 0.8901             | 0.5300           | 0.9568             |
| 0.7200         | 0.9919             | 0.7300           | 1.0011             |
| 0.9100         | 1.0004             | 0.9400           | 1.0012             |
| 1.1100         | 1.0014             | 1.1500           | 0.9989             |
| 1.3000         | 1.0013             | 1.3500           | 0.9973             |
| 1.5300         | 0.9893             | 1.5500           | 1.0014             |
| 1.7400         | 1.0017             | 1.7500           | 1.0005             |
| 1.9400         | 1.0018             | 1.9500           | 1.0019             |
| 2.1400         | 1.0023             | 2.1600           | 0.9984             |
| 2.3500         | 1.0015             | 2.3700           | 0.9999             |
| 2.5500         | 1.0003             | 2.5800           | 0.9995             |

Flight 18 Test point 9

Sweep, deg = 34.9 Mach = 0.83 hp, ft = 20000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 464.0 Rnpu = 3493000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.8717                     | 0.2340                      | 0.1065                  | none             |
| Outboard station rake | 0.7245                     | 0.1895                      | 0.0871                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4461             | 0.0400           | 0.4887             |
| 0.0500         | 0.4663             | 0.0700           | 0.5160             |
| 0.1100         | 0.5081             | 0.1200           | 0.5707             |
| 0.1700         | 0.5557             | 0.1800           | 0.6223             |
| 0.2200         | 0.5940             | 0.2100           | 0.6654             |
| 0.2700         | 0.6439             | 0.2700           | 0.7220             |
| 0.3200         | 0.6944             | 0.3100           | 0.7732             |
| 0.3600         | 0.7434             | 0.3700           | 0.8254             |
| 0.4100         | 0.7896             | 0.4200           | 0.8737             |
| 0.5100         | 0.8784             | 0.5300           | 0.9569             |
| 0.7200         | 0.9929             | 0.7300           | 1.0011             |
| 0.9100         | 1.0016             | 0.9400           | 1.0018             |
| 1.1100         | 1.0024             | 1.1500           | 0.9979             |
| 1.3000         | 1.0012             | 1.3500           | 0.9976             |
| 1.5300         | 0.9895             | 1.5500           | 1.0008             |
| 1.7400         | 1.0020             | 1.7500           | 1.0008             |
| 1.9400         | 1.0013             | 1.9500           | 1.0011             |
| 2.1400         | 1.0009             | 2.1600           | 0.9989             |
| 2.3500         | 1.0012             | 2.3700           | 1.0000             |
| 2.5500         | 0.9999             | 2.5800           | 0.9999             |

Flight 18 Test point 10

Sweep, deg = 30.0 Mach = 0.83 hp, ft = 20000. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 464.8 Rnpu = 3502000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7257                     | 0.2285                      | 0.0907                  | none             |
| Outboard station rake | 0.7242                     | 0.2248                      | 0.0731                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2577             | 0.0400           | 0.0364             |
| 0.0500         | 0.3488             | 0.0700           | 0.2776             |
| 0.1100         | 0.4741             | 0.1200           | 0.4567             |
| 0.1700         | 0.5706             | 0.1800           | 0.5668             |
| 0.2200         | 0.6345             | 0.2100           | 0.6416             |
| 0.2700         | 0.6976             | 0.2700           | 0.7240             |
| 0.3200         | 0.7514             | 0.3100           | 0.7871             |
| 0.3600         | 0.8000             | 0.3700           | 0.8448             |
| 0.4100         | 0.8437             | 0.4200           | 0.8920             |
| 0.5100         | 0.9153             | 0.5300           | 0.9356             |
| 0.7200         | 0.9980             | 0.7300           | 1.0009             |
| 0.9100         | 1.0006             | 0.9400           | 1.0013             |
| 1.1100         | 1.0010             | 1.1500           | 0.9998             |
| 1.3000         | 1.0014             | 1.3500           | 0.9990             |
| 1.5300         | 0.9947             | 1.5500           | 1.0015             |
| 1.7400         | 1.0014             | 1.7500           | 1.0011             |
| 1.9400         | 1.0016             | 1.9500           | 1.0016             |
| 2.1400         | 1.0008             | 2.1600           | 0.9996             |
| 2.3500         | 1.0006             | 2.3700           | 0.9983             |
| 2.5500         | 0.9998             | 2.5800           | 0.9970             |

Flight 18 Test point 11

Sweep, deg = 25.1 Mach = 0.81 hp, ft = 24000. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 370.7 Rnpu = 2931000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7909                     | 0.2789                      | 0.0927                  | none             |
| Outboard station rake | 0.7203                     | 0.2449                      | 0.0818                  | 0.2 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.2768 | 0.0400           | 0.4020 |
| 0.0500         | 0.1928 | 0.0700           | 0.3170 |
| 0.1100         | 0.2527 | 0.1200           | 0.2515 |
| 0.1700         | 0.4255 | 0.1800           | 0.4422 |
| 0.2200         | 0.5103 | 0.2100           | 0.5441 |
| 0.2700         | 0.5960 | 0.2700           | 0.6476 |
| 0.3200         | 0.6691 | 0.3100           | 0.7296 |
| 0.3600         | 0.7362 | 0.3700           | 0.8056 |
| 0.4100         | 0.7992 | 0.4200           | 0.8694 |
| 0.5100         | 0.8956 | 0.5300           | 0.9635 |
| 0.7200         | 0.9997 | 0.7300           | 1.0016 |
| 0.9100         | 1.0005 | 0.9400           | 1.0023 |
| 1.1100         | 1.0017 | 1.1500           | 0.9995 |
| 1.3000         | 1.0012 | 1.3500           | 0.9979 |
| 1.5300         | 0.9958 | 1.5500           | 1.0017 |
| 1.7400         | 1.0014 | 1.7500           | 1.0011 |
| 1.9400         | 1.0009 | 1.9500           | 1.0017 |
| 2.1400         | 0.9997 | 2.1600           | 0.9993 |
| 2.3500         | 1.0007 | 2.3700           | 0.9981 |
| 2.5500         | 0.9980 | 2.5800           | 0.9968 |

Flight 18 Test point 12

Sweep, deg = 25.1 Mach = 0.81 hp, ft = 28000. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 311.9 Rrho = 2539000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7137                     | 0.2722                      | 0.0888                  | none             |
| Outboard station rake | 0.7131                     | 0.2456                      | 0.0788                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3656             | 0.0400           | 0.3889             |
| 0.0500         | 0.2915             | 0.0700           | 0.3001             |
| 0.1100         | 0.2077             | 0.1200           | 0.2351             |
| 0.1700         | 0.4125             | 0.1800           | 0.4223             |
| 0.2200         | 0.5171             | 0.2100           | 0.5322             |
| 0.2700         | 0.6045             | 0.2700           | 0.6462             |
| 0.3200         | 0.6843             | 0.3100           | 0.7360             |
| 0.3600         | 0.7507             | 0.3700           | 0.8140             |
| 0.4100         | 0.8157             | 0.4200           | 0.8776             |
| 0.5100         | 0.9149             | 0.5300           | 0.9705             |
| 0.7200         | 1.0023             | 0.7300           | 1.0024             |
| 0.9100         | 1.0034             | 0.9400           | 1.0037             |
| 1.1100         | 1.0037             | 1.1500           | 1.0014             |
| 1.3000         | 1.0022             | 1.3500           | 0.9987             |
| 1.5300         | 0.9975             | 1.5500           | 1.0023             |
| 1.7400         | 1.0037             | 1.7500           | 1.0015             |
| 1.9400         | 1.0020             | 1.9500           | 1.0026             |
| 2.1400         | 1.0009             | 2.1600           | 0.9975             |
| 2.3500         | 0.9934             | 2.3700           | 0.9953             |
| 2.5500         | 0.9909             | 2.5800           | 0.9946             |

Flight 18 Test point 13

Sweep, deg = 25.2 Mach = 0.81 hp, ft = 29900. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 287.0 R<sub>npu</sub> = 2371000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6975                     | 0.2577                      | 0.0807                  | none             |
| Outboard station rake | 0.7030                     | 0.2717                      | 0.0746                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3727             | 0.0400           | 0.1516             |
| 0.0500         | 0.2992             | 0.0700           | 0.0572             |
| 0.1100         | 0.1887             | 0.1200           | 0.2728             |
| 0.1700         | 0.4147             | 0.1800           | 0.3795             |
| 0.2200         | 0.5262             | 0.2100           | 0.4674             |
| 0.2700         | 0.6219             | 0.2700           | 0.5874             |
| 0.3200         | 0.7077             | 0.3100           | 0.6852             |
| 0.3600         | 0.7836             | 0.3700           | 0.7781             |
| 0.4100         | 0.8495             | 0.4200           | 0.8581             |
| 0.5100         | 0.9521             | 0.5300           | 0.9698             |
| 0.7200         | 1.0050             | 0.7300           | 1.0041             |
| 0.9100         | 1.0027             | 0.9400           | 1.0048             |
| 1.1100         | 1.0056             | 1.1500           | 1.0016             |
| 1.3000         | 1.0049             | 1.3500           | 0.9990             |
| 1.5300         | 0.9970             | 1.5500           | 1.0027             |
| 1.7400         | 1.0045             | 1.7500           | 1.0025             |
| 1.9400         | 1.0040             | 1.9500           | 1.0028             |
| 2.1400         | 0.9980             | 2.1600           | 0.9983             |
| 2.3500         | 0.9901             | 2.3700           | 0.9931             |
| 2.5500         | 0.9882             | 2.5800           | 0.9912             |



Flight 18 Test point 14

Sweep, deg = 30.1 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 2.8  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 225.6 Rnpu = 1947000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.0145                     | 0.3954                      | 0.1127                  | none             |
| Outboard station rake | 0.7293                     | 0.3527                      | 0.0952                  | 0.2 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.1983 | 0.0400           | 0.1676 |
| 0.0500         | 0.1966 | 0.0700           | 0.1647 |
| 0.1100         | 0.1719 | 0.1200           | 0.1931 |
| 0.1700         | 0.2297 | 0.1800           | 0.2329 |
| 0.2200         | 0.2766 | 0.2100           | 0.2746 |
| 0.2700         | 0.3547 | 0.2700           | 0.3836 |
| 0.3200         | 0.4197 | 0.3100           | 0.4946 |
| 0.3600         | 0.5046 | 0.3700           | 0.5876 |
| 0.4100         | 0.5811 | 0.4200           | 0.6886 |
| 0.5100         | 0.7324 | 0.5300           | 0.8552 |
| 0.7200         | 0.9545 | 0.7300           | 1.0005 |
| 0.9100         | 0.9990 | 0.9400           | 1.0040 |
| 1.1100         | 1.0017 | 1.1500           | 0.9993 |
| 1.3000         | 1.0018 | 1.3500           | 0.9969 |
| 1.5300         | 0.9934 | 1.5500           | 1.0031 |
| 1.7400         | 1.0024 | 1.7500           | 1.0022 |
| 1.9400         | 1.0006 | 1.9500           | 1.0031 |
| 2.1400         | 1.0015 | 2.1600           | 0.9979 |
| 2.3500         | 0.9993 | 2.3700           | 0.9991 |
| 2.5500         | 1.0004 | 2.5800           | 0.9944 |

Flight 18 Test point 15

Sweep, deg = 30.4 Mach = 0.80 hp, ft = 34900. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 224.3 Rrho = 1943000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 1.1801                     | 0.2273                      | 0.1045                  | none             |
| Outboard station rake | 0.5558                     | 0.1875                      | 0.0799                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4435             | 0.0400           | 0.3971             |
| 0.0500         | 0.4697             | 0.0700           | 0.4625             |
| 0.1100         | 0.5188             | 0.1200           | 0.5373             |
| 0.1700         | 0.5744             | 0.1800           | 0.6054             |
| 0.2200         | 0.6124             | 0.2100           | 0.6412             |
| 0.2700         | 0.6586             | 0.2700           | 0.7161             |
| 0.3200         | 0.6996             | 0.3100           | 0.7839             |
| 0.3600         | 0.7546             | 0.3700           | 0.8403             |
| 0.4100         | 0.7974             | 0.4200           | 0.9009             |
| 0.5100         | 0.8866             | 0.5300           | 0.9825             |
| 0.7200         | 0.9971             | 0.7300           | 1.0036             |
| 0.9100         | 0.9984             | 0.9400           | 1.0053             |
| 1.1100         | 0.9997             | 1.1500           | 0.9988             |
| 1.3000         | 1.0015             | 1.3500           | 0.9954             |
| 1.5300         | 1.0008             | 1.5500           | 1.0018             |
| 1.7400         | 1.0023             | 1.7500           | 0.9996             |
| 1.9400         | 0.9998             | 1.9500           | 1.0021             |
| 2.1400         | 0.9998             | 2.1600           | 0.9955             |
| 2.3500         | 0.9994             | 2.3700           | 0.9987             |
| 2.5500         | 0.9983             | 2.5800           | 0.9992             |

Flight 18 Test point 16

Sweep, deg = 30.4 Mach = 0.79 hp, ft = 35500. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 213.2 Rrho = 1875000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7137                     | 0.1953                      | 0.0925                  | none             |
| Outboard station rake | 0.5476                     | 0.1807                      | 0.0780                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4778             | 0.0400           | 0.4114             |
| 0.0500         | 0.5017             | 0.0700           | 0.4746             |
| 0.1100         | 0.5603             | 0.1200           | 0.5528             |
| 0.1700         | 0.6167             | 0.1800           | 0.6167             |
| 0.2200         | 0.6531             | 0.2100           | 0.6625             |
| 0.2700         | 0.7038             | 0.2700           | 0.7303             |
| 0.3200         | 0.7493             | 0.3100           | 0.7924             |
| 0.3600         | 0.8036             | 0.3700           | 0.8497             |
| 0.4100         | 0.8483             | 0.4200           | 0.9102             |
| 0.5100         | 0.9335             | 0.5300           | 0.9885             |
| 0.7200         | 1.0018             | 0.7300           | 1.0059             |
| 0.9100         | 0.9999             | 0.9400           | 1.0059             |
| 1.1100         | 1.0031             | 1.1500           | 0.9990             |
| 1.3000         | 1.0025             | 1.3500           | 0.9933             |
| 1.5300         | 0.9883             | 1.5500           | 1.0028             |
| 1.7400         | 1.0041             | 1.7500           | 1.0011             |
| 1.9400         | 1.0013             | 1.9500           | 1.0026             |
| 2.1400         | 1.0012             | 2.1600           | 0.9980             |
| 2.3500         | 0.9987             | 2.3700           | 1.0011             |
| 2.5500         | 0.9991             | 2.5800           | 1.0019             |

Flight 18 Test point 17

Sweep, deg = 24.9 Mach = 0.80 hp, ft = 34900. Angle of attack, deg = 2.3  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 222.8 Rrho = 1934000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4395                     | 0.2041                      | 0.0575                  | none             |
| Outboard station rake | 0.9486                     | 0.5062                      | 0.0996                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3149             | 0.0400           | 0.0345             |
| 0.0500         | 0.2812             | 0.0700           | 0.0746             |
| 0.1100         | 0.2812             | 0.1200           | 0.0522             |
| 0.1700         | 0.4930             | 0.1800           | 0.1104             |
| 0.2200         | 0.6293             | 0.2100           | 0.1924             |
| 0.2700         | 0.7533             | 0.2700           | 0.0709             |
| 0.3200         | 0.8566             | 0.3100           | 0.1880             |
| 0.3600         | 0.9292             | 0.3700           | 0.2858             |
| 0.4100         | 0.9747             | 0.4200           | 0.3966             |
| 0.5100         | 1.0074             | 0.5300           | 0.5785             |
| 0.7200         | 1.0186             | 0.7300           | 0.9164             |
| 0.9100         | 1.0184             | 0.9400           | 0.9970             |
| 1.1100         | 1.0186             | 1.1500           | 0.9992             |
| 1.3000         | 1.0185             | 1.3500           | 0.9961             |
| 1.5300         | 0.8779             | 1.5500           | 1.0015             |
| 1.7400         | 1.0133             | 1.7500           | 1.0026             |
| 1.9400         | 1.0101             | 1.9500           | 1.0044             |
| 2.1400         | 1.0065             | 2.1600           | 0.9994             |
| 2.3500         | 1.0051             | 2.3700           | 0.9990             |
| 2.5500         | 1.0057             | 2.5800           | 1.0009             |

Flight 18 Test point 18

Sweep, deg = 25.0 Mach = 0.81 hp, ft = 35500. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 221.5 Rnpu = 1917000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5336                     | 0.2291                      | 0.0726                  | none             |
| Outboard station rake | 0.7170                     | 0.2447                      | 0.0787                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3586             | 0.0400           | 0.4191             |
| 0.0500         | 0.2879             | 0.0700           | 0.3475             |
| 0.1100         | 0.2409             | 0.1200           | 0.2023             |
| 0.1700         | 0.4550             | 0.1800           | 0.4141             |
| 0.2200         | 0.5599             | 0.2100           | 0.5154             |
| 0.2700         | 0.6691             | 0.2700           | 0.6398             |
| 0.3200         | 0.7597             | 0.3100           | 0.7256             |
| 0.3600         | 0.8407             | 0.3700           | 0.8120             |
| 0.4100         | 0.9016             | 0.4200           | 0.8806             |
| 0.5100         | 0.9824             | 0.5300           | 0.9746             |
| 0.7200         | 1.0176             | 0.7300           | 1.0015             |
| 0.9100         | 1.0165             | 0.9400           | 1.0027             |
| 1.1100         | 1.0175             | 1.1500           | 0.9988             |
| 1.3000         | 1.0180             | 1.3500           | 0.9960             |
| 1.5300         | 0.8641             | 1.5500           | 1.0027             |
| 1.7400         | 1.0177             | 1.7500           | 1.0012             |
| 1.9400         | 1.0175             | 1.9500           | 1.0035             |
| 2.1400         | 1.0128             | 2.1600           | 0.9998             |
| 2.3500         | 1.0088             | 2.3700           | 0.9963             |
| 2.5500         | 1.0096             | 2.5800           | 0.9974             |

Flight 18 Test point 19

Sweep, deg = 24.9 Mach = 0.79 hp, ft = 35100. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 218.7 Rnpu = 1913000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5457                     | 0.2321                      | 0.0696                  | none             |
| Outboard station rake | 0.7172                     | 0.2492                      | 0.0800                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1006             | 0.0400           | 0.4139             |
| 0.0500         | 0.0930             | 0.0700           | 0.3462             |
| 0.1100         | 0.3146             | 0.1200           | 0.1995             |
| 0.1700         | 0.4552             | 0.1800           | 0.3974             |
| 0.2200         | 0.5657             | 0.2100           | 0.5061             |
| 0.2700         | 0.6768             | 0.2700           | 0.6225             |
| 0.3200         | 0.7630             | 0.3100           | 0.7138             |
| 0.3600         | 0.8401             | 0.3700           | 0.7988             |
| 0.4100         | 0.9029             | 0.4200           | 0.8728             |
| 0.5100         | 0.9761             | 0.5300           | 0.9726             |
| 0.7200         | 1.0246             | 0.7300           | 1.0016             |
| 0.9100         | 1.0215             | 0.9400           | 1.0026             |
| 1.1100         | 1.0270             | 1.1500           | 0.9986             |
| 1.3000         | 1.0237             | 1.3500           | 0.9945             |
| 1.5300         | 0.7982             | 1.5500           | 1.0032             |
| 1.7400         | 1.0260             | 1.7500           | 1.0008             |
| 1.9400         | 1.0204             | 1.9500           | 1.0028             |
| 2.1400         | 1.0202             | 2.1600           | 1.0004             |
| 2.3500         | 1.0193             | 2.3700           | 0.9976             |
| 2.5500         | 1.0191             | 2.5800           | 0.9979             |

Flight 18 Test point 20

Sweep, deg = 24.9 Mach = 0.80 hp, ft = 33200. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 240.6 Rrho = 2063000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4693                     | 0.2428                      | 0.0688                  | none             |
| Outboard station rake | 0.7114                     | 0.2432                      | 0.0787                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in          | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1532             | 0.0400           | 0.4310             |
| 0.0500         | 0.1160             | 0.0700           | 0.3483             |
| 0.1100         | 0.2518             | 0.1200           | 0.1961             |
| 0.1700         | 0.4139             | 0.1800           | 0.4129             |
| 0.2200         | 0.5023             | 0.2100           | 0.5185             |
| 0.2700         | 0.6089             | 0.2700           | 0.6392             |
| 0.3200         | 0.7070             | 0.3100           | 0.7254             |
| 0.3600         | 0.8016             | 0.3700           | 0.8107             |
| 0.4100         | 0.8935             | 0.4200           | 0.8803             |
| 0.5100         | 1.0080             | 0.5300           | 0.9764             |
| 0.7200         | 1.0297             | 0.7300           | 1.0021             |
| 0.9100         | 1.0243             | 0.9400           | 1.0032             |
| 1.1100         | 1.0242             | 1.1500           | 0.9985             |
| 1.3000         | 1.0263             | 1.3500           | 0.9962             |
| 1.5300         | 0.7874             | 1.5500           | 1.0012             |
| 1.7400         | 1.0256             | 1.7500           | 1.0016             |
| 1.9400         | 1.0211             | 1.9500           | 1.0035             |
| 2.1400         | 1.0210             | 2.1600           | 0.9997             |
| 2.3500         | 1.0197             | 2.3700           | 0.9972             |
| 2.5500         | 1.0207             | 2.5800           | 0.9968             |

Flight 18 Test point 21

Sweep, deg = 24.9 Mach = 0.79 hp, ft = 32300. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 247.5 Rnpu = 2115000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5000                     | 0.1943                      | 0.0744                  | none             |
| Outboard station rake | 0.7008                     | 0.2567                      | 0.0835                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2155             | 0.0400           | 0.3143             |
| 0.0500         | 0.3137             | 0.0700           | 0.2441             |
| 0.1100         | 0.4571             | 0.1200           | 0.2261             |
| 0.1700         | 0.5641             | 0.1800           | 0.3907             |
| 0.2200         | 0.6254             | 0.2100           | 0.4713             |
| 0.2700         | 0.7083             | 0.2700           | 0.5846             |
| 0.3200         | 0.7834             | 0.3100           | 0.6738             |
| 0.3600         | 0.8554             | 0.3700           | 0.7682             |
| 0.4100         | 0.9173             | 0.4200           | 0.8529             |
| 0.5100         | 1.0087             | 0.5300           | 0.9726             |
| 0.7200         | 1.0268             | 0.7300           | 1.0041             |
| 0.9100         | 1.0239             | 0.9400           | 1.0030             |
| 1.1100         | 1.0257             | 1.1500           | 0.9985             |
| 1.3000         | 1.0276             | 1.3500           | 0.9949             |
| 1.5300         | 0.7698             | 1.5500           | 1.0034             |
| 1.7400         | 1.0271             | 1.7500           | 1.0019             |
| 1.9400         | 1.0260             | 1.9500           | 1.0020             |
| 2.1400         | 1.0244             | 2.1600           | 0.9959             |
| 2.3500         | 1.0243             | 2.3700           | 0.9973             |
| 2.5500         | 1.0244             | 2.5800           | 0.9990             |



Flight 18 Test point 22

Sweep, deg = 20.1 Mach = 0.81 hp, ft = 32700. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 251.0 Rrho = 2126000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4967                     | 0.2291                      | 0.0596                  | none             |
| Outboard station rake | 0.9113                     | 0.4396                      | 0.0873                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4180             | 0.0400           | 0.0550             |
| 0.0500         | 0.3991             | 0.0700           | 0.0970             |
| 0.1100         | 0.1121             | 0.1200           | 0.0489             |
| 0.1700         | 0.3834             | 0.1800           | 0.0976             |
| 0.2200         | 0.5409             | 0.2100           | 0.0485             |
| 0.2700         | 0.6826             | 0.2700           | 0.2133             |
| 0.3200         | 0.7978             | 0.3100           | 0.3173             |
| 0.3600         | 0.8876             | 0.3700           | 0.4180             |
| 0.4100         | 0.9542             | 0.4200           | 0.5305             |
| 0.5100         | 1.0065             | 0.5300           | 0.7333             |
| 0.7200         | 1.0184             | 0.7300           | 0.9828             |
| 0.9100         | 1.0174             | 0.9400           | 1.0024             |
| 1.1100         | 1.0181             | 1.1500           | 0.9988             |
| 1.3000         | 1.0169             | 1.3500           | 0.9968             |
| 1.5300         | 0.8797             | 1.5500           | 1.0025             |
| 1.7400         | 1.0135             | 1.7500           | 1.0018             |
| 1.9400         | 1.0094             | 1.9500           | 1.0012             |
| 2.1400         | 1.0082             | 2.1600           | 0.9989             |
| 2.3500         | 1.0057             | 2.3700           | 0.9986             |
| 2.5500         | 1.0062             | 2.5800           | 0.9990             |

Flight 18 Test point 23

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25300. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 349.4 Rrho = 2802000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4988                     | 0.2317                      | 0.0748                  | none             |
| Outboard station rake | 0.7159                     | 0.2516                      | 0.0835                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.6112             | 0.0400           | 0.5457             |
| 0.0500         | 0.5991             | 0.0700           | 0.5002             |
| 0.1100         | 0.4649             | 0.1200           | 0.2965             |
| 0.1700         | 0.2169             | 0.1800           | 0.2458             |
| 0.2200         | 0.3353             | 0.2100           | 0.4240             |
| 0.2700         | 0.5303             | 0.2700           | 0.5721             |
| 0.3200         | 0.6678             | 0.3100           | 0.6805             |
| 0.3600         | 0.7948             | 0.3700           | 0.7778             |
| 0.4100         | 0.9045             | 0.4200           | 0.8582             |
| 0.5100         | 1.0114             | 0.5300           | 0.9792             |
| 0.7200         | 1.0212             | 0.7300           | 1.0020             |
| 0.9100         | 1.0208             | 0.9400           | 1.0030             |
| 1.1100         | 1.0189             | 1.1500           | 0.9997             |
| 1.3000         | 1.0175             | 1.3500           | 0.9991             |
| 1.5300         | 0.8677             | 1.5500           | 1.0029             |
| 1.7400         | 1.0136             | 1.7500           | 1.0016             |
| 1.9400         | 1.0115             | 1.9500           | 1.0014             |
| 2.1400         | 1.0103             | 2.1600           | 0.9989             |
| 2.3500         | 1.0109             | 2.3700           | 0.9956             |
| 2.5500         | 1.0077             | 2.5800           | 0.9958             |

Flight 18 Test point 24

Sweep, deg = 20.1 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 351.8 Rnpu = 2819000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4858                     | 0.2111                      | 0.0691                  | none             |
| Outboard station rake | 0.7122                     | 0.2491                      | 0.0830                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5352             | 0.0400           | 0.5549             |
| 0.0500         | 0.4954             | 0.0700           | 0.5126             |
| 0.1100         | 0.3082             | 0.1200           | 0.3084             |
| 0.1700         | 0.3273             | 0.1800           | 0.2278             |
| 0.2200         | 0.5112             | 0.2100           | 0.4207             |
| 0.2700         | 0.6604             | 0.2700           | 0.5718             |
| 0.3200         | 0.7778             | 0.3100           | 0.6828             |
| 0.3500         | 0.8756             | 0.3700           | 0.7794             |
| 0.4100         | 0.9567             | 0.4200           | 0.8611             |
| 0.5100         | 1.0128             | 0.5300           | 0.9732             |
| 0.7200         | 1.0183             | 0.7300           | 1.0023             |
| 0.9100         | 1.0180             | 0.9400           | 1.0026             |
| 1.1100         | 1.0179             | 1.1500           | 0.9998             |
| 1.3000         | 1.0169             | 1.3500           | 0.9986             |
| 1.5300         | 0.8640             | 1.5500           | 1.0015             |
| 1.7400         | 1.0168             | 1.7500           | 1.0014             |
| 1.9400         | 1.0122             | 1.9500           | 1.0007             |
| 2.1400         | 1.0082             | 2.1600           | 0.9992             |
| 2.3500         | 1.0084             | 2.3700           | 0.9972             |
| 2.5500         | 1.0067             | 2.5800           | 0.9967             |

Flight 18 Test point 25

Sweep, deg = 20.0 Mach = 0.81 hp, ft = 25000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 357.2 Rrho = 2842000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4992                     | 0.2311                      | 0.0716                  | none             |
| Outboard station rake | 0.7192                     | 0.2515                      | 0.0831                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5569             | 0.0400           | 0.5450             |
| 0.0500         | 0.5416             | 0.0700           | 0.5039             |
| 0.1100         | 0.3853             | 0.1200           | 0.2944             |
| 0.1700         | 0.1669             | 0.1800           | 0.2415             |
| 0.2200         | 0.4247             | 0.2100           | 0.4272             |
| 0.2700         | 0.5883             | 0.2700           | 0.5745             |
| 0.3200         | 0.7158             | 0.3100           | 0.6829             |
| 0.3600         | 0.8260             | 0.3700           | 0.7762             |
| 0.4100         | 0.9146             | 0.4200           | 0.8590             |
| 0.5100         | 1.0097             | 0.5300           | 0.9715             |
| 0.7200         | 1.0202             | 0.7300           | 1.0014             |
| 0.9100         | 1.0180             | 0.9400           | 1.0022             |
| 1.1100         | 1.0191             | 1.1500           | 0.9999             |
| 1.3000         | 1.0168             | 1.3500           | 0.9989             |
| 1.5300         | 0.8725             | 1.5500           | 1.0027             |
| 1.7400         | 1.0175             | 1.7500           | 1.0025             |
| 1.9400         | 1.0108             | 1.9500           | 1.0023             |
| 2.1400         | 1.0095             | 2.1600           | 0.9979             |
| 2.3500         | 1.0090             | 2.3700           | 0.9952             |
| 2.5500         | 1.0066             | 2.5800           | 0.9969             |

Flight 18 Test point 26

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25500. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 347.6 Rnpu = 2779000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4193                     | 0.1841                      | 0.0573                  | none             |
| Outboard station rake | 0.7132                     | 0.2632                      | 0.0840                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5418             | 0.0400           | 0.4926             |
| 0.0500         | 0.4957             | 0.0700           | 0.4606             |
| 0.1100         | 0.2428             | 0.1200           | 0.2681             |
| 0.1700         | 0.4204             | 0.1800           | 0.2387             |
| 0.2200         | 0.6134             | 0.2100           | 0.4068             |
| 0.2700         | 0.7767             | 0.2700           | 0.5538             |
| 0.3200         | 0.8993             | 0.3100           | 0.6659             |
| 0.3600         | 0.9656             | 0.3700           | 0.7613             |
| 0.4100         | 0.9949             | 0.4200           | 0.8447             |
| 0.5100         | 1.0151             | 0.5300           | 0.9655             |
| 0.7200         | 1.0193             | 0.7300           | 1.0028             |
| 0.9100         | 1.0186             | 0.9400           | 1.0036             |
| 1.1100         | 1.0189             | 1.1500           | 1.0013             |
| 1.3000         | 1.0187             | 1.3500           | 0.9988             |
| 1.5300         | 0.8783             | 1.5500           | 1.0030             |
| 1.7400         | 1.0129             | 1.7500           | 1.0021             |
| 1.9400         | 1.0087             | 1.9500           | 1.0014             |
| 2.1400         | 1.0071             | 2.1600           | 0.9969             |
| 2.3500         | 1.0039             | 2.3700           | 0.9945             |
| 2.5500         | 1.0036             | 2.5800           | 0.9956             |

Flight 18 Test point 27

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25300. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 350.6 Rrho = 2800000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4935                     | 0.2148                      | 0.0663                  | none             |
| Outboard station rake | 0.7223                     | 0.3199                      | 0.0877                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5385             | 0.0400           | 0.2950             |
| 0.0500         | 0.5183             | 0.0700           | 0.2923             |
| 0.1100         | 0.3205             | 0.1200           | 0.1509             |
| 0.1700         | 0.2855             | 0.1800           | 0.1711             |
| 0.2200         | 0.5000             | 0.2100           | 0.2811             |
| 0.2700         | 0.6673             | 0.2700           | 0.4320             |
| 0.3200         | 0.7952             | 0.3100           | 0.5436             |
| 0.3600         | 0.8891             | 0.3700           | 0.6499             |
| 0.4100         | 0.9547             | 0.4200           | 0.7559             |
| 0.5100         | 1.0083             | 0.5300           | 0.9240             |
| 0.7200         | 1.0189             | 0.7300           | 1.0027             |
| 0.9100         | 1.0182             | 0.9400           | 1.0041             |
| 1.1100         | 1.0190             | 1.1500           | 0.9998             |
| 1.3000         | 1.0178             | 1.3500           | 0.9996             |
| 1.5300         | 0.8904             | 1.5500           | 1.0030             |
| 1.7400         | 1.0119             | 1.7500           | 1.0019             |
| 1.9400         | 1.0056             | 1.9500           | 1.0029             |
| 2.1400         | 1.0035             | 2.1600           | 0.9999             |
| 2.3500         | 1.0031             | 2.3700           | 0.9941             |
| 2.5500         | 1.0033             | 2.5800           | 0.9921             |

Flight 18 Test point 28

Sweep, deg = 25.0 Mach = 0.80 hp, ft = 25100. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 350.2 Rrho = 2806000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6759                     | 0.2693                      | 0.0932                  | none             |
| Outboard station rake | 0.7265                     | 0.2476                      | 0.0827                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1127             | 0.0400           | 0.4197             |
| 0.0500         | 0.2167             | 0.0700           | 0.3374             |
| 0.1100         | 0.3470             | 0.1200           | 0.2043             |
| 0.1700         | 0.4439             | 0.1800           | 0.4214             |
| 0.2200         | 0.5098             | 0.2100           | 0.5255             |
| 0.2700         | 0.5882             | 0.2700           | 0.6321             |
| 0.3200         | 0.6513             | 0.3100           | 0.7157             |
| 0.3600         | 0.7229             | 0.3700           | 0.7958             |
| 0.4100         | 0.7882             | 0.4200           | 0.8635             |
| 0.5100         | 0.9041             | 0.5300           | 0.9646             |
| 0.7200         | 1.0229             | 0.7300           | 1.0006             |
| 0.9100         | 1.0247             | 0.9400           | 1.0016             |
| 1.1100         | 1.0266             | 1.1500           | 0.9993             |
| 1.3000         | 1.0255             | 1.3500           | 0.9978             |
| 1.5300         | 0.7957             | 1.5500           | 1.0016             |
| 1.7400         | 1.0249             | 1.7500           | 1.0010             |
| 1.9400         | 1.0257             | 1.9500           | 1.0008             |
| 2.1400         | 1.0250             | 2.1600           | 1.0005             |
| 2.3500         | 1.0260             | 2.3700           | 0.9987             |
| 2.5500         | 1.0258             | 2.5800           | 0.9981             |

Flight 18 Test point 29

Sweep, deg = 25.0 Mach = 0.81 hp, ft = 25100. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 353.7 Rnpu = 2821000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6808                     | 0.2713                      | 0.0867                  | none             |
| Outboard station rake | 0.7135                     | 0.2379                      | 0.0783                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3585             | 0.0400           | 0.4229             |
| 0.0500         | 0.2960             | 0.0700           | 0.3329             |
| 0.1100         | 0.1876             | 0.1200           | 0.2432             |
| 0.1700         | 0.4052             | 0.1800           | 0.4410             |
| 0.2200         | 0.5075             | 0.2100           | 0.5502             |
| 0.2700         | 0.5981             | 0.2700           | 0.6593             |
| 0.3200         | 0.6794             | 0.3100           | 0.7457             |
| 0.3600         | 0.7497             | 0.3700           | 0.8225             |
| 0.4100         | 0.8160             | 0.4200           | 0.8860             |
| 0.5100         | 0.9205             | 0.5300           | 0.9745             |
| 0.7200         | 1.0162             | 0.7300           | 1.0020             |
| 0.9100         | 1.0173             | 0.9400           | 1.0036             |
| 1.1100         | 1.0173             | 1.1500           | 1.0014             |
| 1.3000         | 1.0167             | 1.3500           | 0.9996             |
| 1.5300         | 0.8638             | 1.5500           | 1.0024             |
| 1.7400         | 1.0176             | 1.7500           | 1.0023             |
| 1.9400         | 1.0163             | 1.9500           | 1.0009             |
| 2.1400         | 1.0161             | 2.1600           | 0.9969             |
| 2.3500         | 1.0118             | 2.3700           | 0.9959             |
| 2.5500         | 1.0068             | 2.5800           | 0.9951             |



Flight 18 Test point 30

Sweep, deg = 25.0 Mach = 0.80 hp, ft = 25100. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 350.2 Rnpu = 2907000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6736                     | 0.2690                      | 0.0845                  | none             |
| Outboard station rake | 0.6986                     | 0.2433                      | 0.0764                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3487             | 0.0400           | 0.3899             |
| 0.0500         | 0.2839             | 0.0700           | 0.3199             |
| 0.1100         | 0.1873             | 0.1200           | 0.2204             |
| 0.1700         | 0.4086             | 0.1800           | 0.4105             |
| 0.2200         | 0.5082             | 0.2100           | 0.5212             |
| 0.2700         | 0.6034             | 0.2700           | 0.6412             |
| 0.3200         | 0.6830             | 0.3100           | 0.7353             |
| 0.3600         | 0.7549             | 0.3700           | 0.8194             |
| 0.4100         | 0.8237             | 0.4200           | 0.8880             |
| 0.5100         | 0.9299             | 0.5300           | 0.9807             |
| 0.7200         | 1.0175             | 0.7300           | 1.0031             |
| 0.9100         | 1.0175             | 0.9400           | 1.0044             |
| 1.1100         | 1.0183             | 1.1500           | 1.0021             |
| 1.3000         | 1.0176             | 1.3500           | 0.9998             |
| 1.5300         | 0.8706             | 1.5500           | 1.0021             |
| 1.7400         | 1.0167             | 1.7500           | 1.0025             |
| 1.9400         | 1.0168             | 1.9500           | 1.0031             |
| 2.1400         | 1.0147             | 2.1600           | 0.9958             |
| 2.3500         | 1.0068             | 2.3700           | 0.9946             |
| 2.5500         | 1.0034             | 2.5800           | 0.9924             |

Flight 18 Test point 31

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 269.1 Rrho = 2426000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.3869                     | 0.1319                      | 0.0525                  | none             |
| Outboard station rake | 0.5485                     | 0.1805                      | 0.0663                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2741             | 0.0400           | 0.4642             |
| 0.0500         | 0.3456             | 0.0700           | 0.0899             |
| 0.1100         | 0.5919             | 0.1200           | 0.4869             |
| 0.1700         | 0.7322             | 0.1800           | 0.6278             |
| 0.2200         | 0.8049             | 0.2100           | 0.6982             |
| 0.2700         | 0.8733             | 0.2700           | 0.7788             |
| 0.3200         | 0.9278             | 0.3100           | 0.8386             |
| 0.3600         | 0.9749             | 0.3700           | 0.8919             |
| 0.4100         | 1.0004             | 0.4200           | 0.9393             |
| 0.5100         | 1.0165             | 0.5300           | 0.9920             |
| 0.7200         | 1.0219             | 0.7300           | 1.0020             |
| 0.9100         | 1.0202             | 0.9400           | 1.0024             |
| 1.1100         | 1.0212             | 1.1500           | 0.9984             |
| 1.3000         | 1.0226             | 1.3500           | 0.9954             |
| 1.5300         | 0.7884             | 1.5500           | 1.0016             |
| 1.7400         | 1.0222             | 1.7500           | 1.0013             |
| 1.9400         | 1.0211             | 1.9500           | 1.0032             |
| 2.1400         | 1.0224             | 2.1600           | 1.0005             |
| 2.3500         | 1.0214             | 2.3700           | 1.0016             |
| 2.5500         | 1.0217             | 2.5800           | 1.0017             |

Flight 18 Test point 32

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 25300. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 265.3 R<sub>rho</sub> = 2398000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.3538                     | 0.1131                      | 0.0437                  | none             |
| Outboard station rake | 0.4813                     | 0.1666                      | 0.0640                  | 0.2 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1522             | 0.0400           | 0.3868             |
| 0.0500         | 0.4605             | 0.0700           | 0.2263             |
| 0.1100         | 0.6620             | 0.1200           | 0.5341             |
| 0.1700         | 0.7884             | 0.1800           | 0.6596             |
| 0.2200         | 0.8594             | 0.2100           | 0.7228             |
| 0.2700         | 0.9192             | 0.2700           | 0.7992             |
| 0.3200         | 0.9692             | 0.3100           | 0.8593             |
| 0.3600         | 1.0021             | 0.3700           | 0.9102             |
| 0.4100         | 1.0110             | 0.4200           | 0.9552             |
| 0.5100         | 1.0164             | 0.5300           | 0.9992             |
| 0.7200         | 1.0210             | 0.7300           | 1.0047             |
| 0.9100         | 1.0190             | 0.9400           | 1.0077             |
| 1.1100         | 1.0202             | 1.1500           | 1.0016             |
| 1.3000         | 1.0205             | 1.3500           | 0.9996             |
| 1.5300         | 0.7893             | 1.5500           | 1.0051             |
| 1.7400         | 1.0213             | 1.7500           | 1.0045             |
| 1.9400         | 1.0201             | 1.9500           | 1.0075             |
| 2.1400         | 1.0212             | 2.1600           | 1.0045             |
| 2.3500         | 1.0202             | 2.3700           | 1.0051             |
| 2.5500         | 1.0198             | 2.5800           | 1.0053             |

Flight 18 Test point 33

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 269.6 Rnpu = 2431000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.3897                     | 0.1318                      | 0.0525                  | none             |
| Outboard station rake | 0.5459                     | 0.1794                      | 0.0675                  | 0.1 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2593             | 0.0400           | 0.4650             |
| 0.0500         | 0.3533             | 0.0700           | 0.1331             |
| 0.1100         | 0.5997             | 0.1200           | 0.4826             |
| 0.1700         | 0.7352             | 0.1800           | 0.6274             |
| 0.2200         | 0.8030             | 0.2100           | 0.6934             |
| 0.2700         | 0.8727             | 0.2700           | 0.7753             |
| 0.3200         | 0.9265             | 0.3100           | 0.8412             |
| 0.3600         | 0.9734             | 0.3700           | 0.8918             |
| 0.4100         | 0.9993             | 0.4200           | 0.9395             |
| 0.5100         | 1.0180             | 0.5300           | 0.9930             |
| 0.7200         | 1.0209             | 0.7300           | 1.0012             |
| 0.9100         | 1.0199             | 0.9400           | 1.0038             |
| 1.1100         | 1.0213             | 1.1500           | 0.9983             |
| 1.3000         | 1.0212             | 1.3500           | 0.9951             |
| 1.5300         | 0.7917             | 1.5500           | 1.0015             |
| 1.7400         | 1.0215             | 1.7500           | 1.0011             |
| 1.9400         | 1.0228             | 1.9500           | 1.0029             |
| 2.1400         | 1.0215             | 2.1600           | 1.0007             |
| 2.3500         | 1.0207             | 2.3700           | 0.9999             |
| 2.5500         | 1.0213             | 2.5800           | 1.0025             |

Flight 18 Test point 34

Sweep, deg = 24.9 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 269.9 Rnpu = 2436000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4153                     | 0.1104                      | 0.0520                  | none             |
| Outboard station rake | 0.4638                     | 0.1411                      | 0.0614                  | 0.1 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4700             | 0.0400           | 0.3650             |
| 0.0500         | 0.5678             | 0.0700           | 0.5126             |
| 0.1100         | 0.6759             | 0.1200           | 0.6320             |
| 0.1700         | 0.7692             | 0.1800           | 0.7118             |
| 0.2200         | 0.8252             | 0.2100           | 0.7651             |
| 0.2700         | 0.8875             | 0.2700           | 0.8272             |
| 0.3200         | 0.9360             | 0.3100           | 0.8791             |
| 0.3600         | 0.9783             | 0.3700           | 0.9264             |
| 0.4100         | 1.0027             | 0.4200           | 0.9670             |
| 0.5100         | 1.0192             | 0.5300           | 1.0022             |
| 0.7200         | 1.0229             | 0.7300           | 1.0043             |
| 0.9100         | 1.0221             | 0.9400           | 1.0055             |
| 1.1100         | 1.0252             | 1.1500           | 1.0003             |
| 1.3000         | 1.0225             | 1.3500           | 0.9974             |
| 1.5300         | 0.7719             | 1.5500           | 1.0043             |
| 1.7400         | 1.0229             | 1.7500           | 1.0042             |
| 1.9400         | 1.0233             | 1.9500           | 1.0050             |
| 2.1400         | 1.0229             | 2.1600           | 1.0027             |
| 2.3500         | 1.0218             | 2.3700           | 1.0032             |
| 2.5500         | 1.0226             | 2.5800           | 1.0040             |

Flight 18 Test point 35

Sweep, deg = 24.5 Mach = 0.70 hp, ft = 24900. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 269.3 Rrho = 2433000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.3530                     | 0.0930                      | 0.0440                  | none             |
| Outboard station rake | 0.4574                     | 0.1310                      | 0.0591                  | 0.1 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5227             | 0.0400           | 0.4319             |
| 0.0500         | 0.6114             | 0.0700           | 0.5509             |
| 0.1100         | 0.7154             | 0.1200           | 0.6542             |
| 0.1700         | 0.8087             | 0.1800           | 0.7284             |
| 0.2200         | 0.8658             | 0.2100           | 0.7815             |
| 0.2700         | 0.9270             | 0.2700           | 0.8428             |
| 0.3200         | 0.9726             | 0.3100           | 0.8928             |
| 0.3600         | 1.0039             | 0.3700           | 0.9386             |
| 0.4100         | 1.0142             | 0.4200           | 0.9748             |
| 0.5100         | 1.0173             | 0.5300           | 1.0018             |
| 0.7200         | 1.0223             | 0.7300           | 1.0025             |
| 0.9100         | 1.0216             | 0.9400           | 1.0049             |
| 1.1100         | 1.0215             | 1.1500           | 1.0005             |
| 1.3000         | 1.0225             | 1.3500           | 0.9955             |
| 1.5300         | 0.7666             | 1.5500           | 1.0028             |
| 1.7400         | 1.0232             | 1.7500           | 1.0035             |
| 1.9400         | 1.0211             | 1.9500           | 1.0041             |
| 2.1400         | 1.0235             | 2.1600           | 1.0025             |
| 2.3500         | 1.0209             | 2.3700           | 1.0026             |
| 2.5500         | 1.0213             | 2.5800           | 1.0043             |

Flight 18 Test point 36

Sweep, deg = 25.2 Mach = 0.70 hp, ft = 24800. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 273.1 Rrho = 2453000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4265                     | 0.1105                      | 0.0527                  | none             |
| Outboard station rake | 0.4644                     | 0.1405                      | 0.0618                  | 0.1 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4973             | 0.0400           | 0.3956             |
| 0.0500         | 0.5763             | 0.0700           | 0.5181             |
| 0.1100         | 0.6828             | 0.1200           | 0.6338             |
| 0.1700         | 0.7657             | 0.1800           | 0.7087             |
| 0.2200         | 0.8265             | 0.2100           | 0.7598             |
| 0.2700         | 0.8844             | 0.2700           | 0.8274             |
| 0.3200         | 0.9306             | 0.3100           | 0.8808             |
| 0.3600         | 0.9752             | 0.3700           | 0.9249             |
| 0.4100         | 1.0002             | 0.4200           | 0.9661             |
| 0.5100         | 1.0203             | 0.5300           | 1.0003             |
| 0.7200         | 1.0247             | 0.7300           | 1.0051             |
| 0.9100         | 1.0220             | 0.9400           | 1.0073             |
| 1.1100         | 1.0239             | 1.1500           | 1.0011             |
| 1.3000         | 1.0213             | 1.3500           | 0.9970             |
| 1.5300         | 0.7710             | 1.5500           | 1.0034             |
| 1.7400         | 1.0226             | 1.7500           | 1.0031             |
| 1.9400         | 1.0241             | 1.9500           | 1.0060             |
| 2.1400         | 1.0251             | 2.1600           | 1.0022             |
| 2.3500         | 1.0221             | 2.3700           | 1.0038             |
| 2.5500         | 1.0229             | 2.5800           | 1.0047             |

Flight 18 Test point 37

Sweep, deg = 25.0 Mach = 0.71 hp, ft = 18700. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 358.9 R<sub>rho</sub> = 3083000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4452                     | 0.1130                      | 0.0542                  | none             |
| Outboard station rake | 0.4577                     | 0.1314                      | 0.0591                  | 0.1 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4984             | 0.0400           | 0.4345             |
| 0.0500         | 0.5804             | 0.0700           | 0.5494             |
| 0.1100         | 0.6835             | 0.1200           | 0.6538             |
| 0.1700         | 0.7631             | 0.1800           | 0.7292             |
| 0.2200         | 0.8184             | 0.2100           | 0.7811             |
| 0.2700         | 0.8749             | 0.2700           | 0.8408             |
| 0.3200         | 0.9257             | 0.3100           | 0.8925             |
| 0.3600         | 0.9670             | 0.3700           | 0.9390             |
| 0.4100         | 0.9952             | 0.4200           | 0.9749             |
| 0.5100         | 1.0178             | 0.5300           | 1.0017             |
| 0.7200         | 1.0240             | 0.7300           | 1.0032             |
| 0.9100         | 1.0221             | 0.9400           | 1.0040             |
| 1.1100         | 1.0241             | 1.1500           | 1.0002             |
| 1.3000         | 1.0233             | 1.3500           | 0.9984             |
| 1.5300         | 0.7767             | 1.5500           | 1.0021             |
| 1.7400         | 1.0240             | 1.7500           | 1.0027             |
| 1.9400         | 1.0231             | 1.9500           | 1.0045             |
| 2.1400         | 1.0222             | 2.1600           | 1.0019             |
| 2.3500         | 1.0236             | 2.3700           | 1.0039             |
| 2.5500         | 1.0240             | 2.5800           | 1.0026             |



Flight 18 Test point 38

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 18400. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 358.7 Rrho = 3093000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4789                     | 0.1249                      | 0.0612                  | none             |
| Outboard station rake | 0.4550                     | 0.1257                      | 0.0575                  | 0.1 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5132             | 0.0400           | 0.4647             |
| 0.0500         | 0.5829             | 0.0700           | 0.5643             |
| 0.1100         | 0.6648             | 0.1200           | 0.6672             |
| 0.1700         | 0.7405             | 0.1800           | 0.7413             |
| 0.2200         | 0.7899             | 0.2100           | 0.7923             |
| 0.2700         | 0.8384             | 0.2700           | 0.8529             |
| 0.3200         | 0.8816             | 0.3100           | 0.9014             |
| 0.3600         | 0.9233             | 0.3700           | 0.9443             |
| 0.4100         | 0.9575             | 0.4200           | 0.9791             |
| 0.5100         | 1.0083             | 0.5300           | 1.0016             |
| 0.7200         | 1.0253             | 0.7300           | 1.0034             |
| 0.9100         | 1.0243             | 0.9400           | 1.0034             |
| 1.1100         | 1.0256             | 1.1500           | 0.9989             |
| 1.3000         | 1.0245             | 1.3500           | 0.9977             |
| 1.5300         | 0.7686             | 1.5500           | 1.0023             |
| 1.7400         | 1.0247             | 1.7500           | 1.0032             |
| 1.9400         | 1.0243             | 1.9500           | 1.0036             |
| 2.1400         | 1.0249             | 2.1600           | 1.0016             |
| 2.3500         | 1.0240             | 2.3700           | 1.0026             |
| 2.5500         | 1.0254             | 2.5800           | 1.0025             |

Flight 18 Test point 39

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 15700. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 401.0 Rnpu = 3402000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5575                     | 0.1429                      | 0.0720                  | none             |
| Outboard station rake | 0.4807                     | 0.1305                      | 0.0612                  | 0.1 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5235             | 0.0400           | 0.4871             |
| 0.0500         | 0.5798             | 0.0700           | 0.5777             |
| 0.1100         | 0.6579             | 0.1200           | 0.6719             |
| 0.1700         | 0.7178             | 0.1800           | 0.7391             |
| 0.2200         | 0.7557             | 0.2100           | 0.7825             |
| 0.2700         | 0.8014             | 0.2700           | 0.8355             |
| 0.3200         | 0.8401             | 0.3100           | 0.8797             |
| 0.3600         | 0.8791             | 0.3700           | 0.9232             |
| 0.4100         | 0.9103             | 0.4200           | 0.9596             |
| 0.5100         | 0.9731             | 0.5300           | 0.9993             |
| 0.7200         | 1.0246             | 0.7300           | 1.0051             |
| 0.9100         | 1.0254             | 0.9400           | 1.0054             |
| 1.1100         | 1.0249             | 1.1500           | 1.0030             |
| 1.3000         | 1.0248             | 1.3500           | 0.9996             |
| 1.5300         | 0.7709             | 1.5500           | 1.0049             |
| 1.7400         | 1.0257             | 1.7500           | 1.0045             |
| 1.9400         | 1.0262             | 1.9500           | 1.0049             |
| 2.1400         | 1.0267             | 2.1600           | 1.0035             |
| 2.3500         | 1.0249             | 2.3700           | 1.0050             |
| 2.5500         | 1.0259             | 2.5800           | 1.0051             |

Flight 18 Test point 40

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 13900. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 432.4 Rrho = 3620000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5683                     | 0.1450                      | 0.0733                  | none             |
| Outboard station rake | 0.4858                     | 0.1326                      | 0.0622                  | 0.1 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5238             | 0.0400           | 0.4865             |
| 0.0500         | 0.5813             | 0.0700           | 0.5756             |
| 0.1100         | 0.6590             | 0.1200           | 0.6681             |
| 0.1700         | 0.7180             | 0.1800           | 0.7342             |
| 0.2200         | 0.7576             | 0.2100           | 0.7792             |
| 0.2700         | 0.7992             | 0.2700           | 0.8320             |
| 0.3200         | 0.8349             | 0.3100           | 0.8758             |
| 0.3600         | 0.8716             | 0.3700           | 0.9188             |
| 0.4100         | 0.9041             | 0.4200           | 0.9557             |
| 0.5100         | 0.9671             | 0.5300           | 0.9982             |
| 0.7200         | 1.0249             | 0.7300           | 1.0047             |
| 0.9100         | 1.0252             | 0.9400           | 1.0061             |
| 1.1100         | 1.0258             | 1.1500           | 1.0027             |
| 1.3000         | 1.0250             | 1.3500           | 1.0013             |
| 1.5300         | 0.7727             | 1.5500           | 1.0060             |
| 1.7400         | 1.0254             | 1.7500           | 1.0048             |
| 1.9400         | 1.0253             | 1.9500           | 1.0067             |
| 2.1400         | 1.0252             | 2.1600           | 1.0047             |
| 2.3500         | 1.0250             | 2.3700           | 1.0040             |
| 2.5500         | 1.0255             | 2.5800           | 1.0050             |

Flight 18 Test point 41

Sweep, deg = 22.5 Mach = 0.69 hp, ft = 10400. Angle of attack, deg = -0.2  
 Angle of sideslip, deg = 0.5 QBAR, lb/ft<sup>2</sup> = 482.4 Rnpu = 3998000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5504                     | 0.1445                      | 0.0713                  | none             |
| Outboard station rake | 0.4878                     | 0.1385                      | 0.0624                  | 0.1 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4537             | 0.0400           | 0.3952             |
| 0.0500         | 0.5466             | 0.0700           | 0.5326             |
| 0.1100         | 0.6461             | 0.1200           | 0.6483             |
| 0.1700         | 0.7163             | 0.1800           | 0.7274             |
| 0.2200         | 0.7591             | 0.2100           | 0.7758             |
| 0.2700         | 0.8031             | 0.2700           | 0.8319             |
| 0.3200         | 0.8451             | 0.3100           | 0.8768             |
| 0.3600         | 0.8829             | 0.3700           | 0.9196             |
| 0.4100         | 0.9149             | 0.4200           | 0.9556             |
| 0.5100         | 0.9772             | 0.5300           | 0.9990             |
| 0.7200         | 1.0260             | 0.7300           | 1.0056             |
| 0.9100         | 1.0262             | 0.9400           | 1.0059             |
| 1.1100         | 1.0270             | 1.1500           | 1.0031             |
| 1.3000         | 1.0265             | 1.3500           | 1.0020             |
| 1.5300         | 0.7630             | 1.5500           | 1.0046             |
| 1.7400         | 1.0270             | 1.7500           | 1.0050             |
| 1.9400         | 1.0254             | 1.9500           | 1.0058             |
| 2.1400         | 1.0258             | 2.1600           | 1.0040             |
| 2.3500         | 1.0261             | 2.3700           | 1.0050             |
| 2.5500         | 1.0270             | 2.5800           | 1.0044             |

Flight 18 Test point 42

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 9900. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 500.3 Rrho = 4101000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.3472                     | 0.1227                      | 0.0495                  | none             |
| Outboard station rake | 0.4737                     | 0.1662                      | 0.0666                  | 0.1 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.6197 | 0.0400           | 0.6942 |
| 0.0500         | 0.3376 | 0.0700           | 0.4941 |
| 0.1100         | 0.4965 | 0.1200           | 0.3002 |
| 0.1700         | 0.7216 | 0.1800           | 0.5634 |
| 0.2200         | 0.8260 | 0.2100           | 0.6756 |
| 0.2700         | 0.9073 | 0.2700           | 0.7755 |
| 0.3200         | 0.9689 | 0.3100           | 0.8477 |
| 0.3600         | 1.0043 | 0.3700           | 0.9073 |
| 0.4100         | 1.0096 | 0.4200           | 0.9546 |
| 0.5100         | 1.0131 | 0.5300           | 0.9983 |
| 0.7200         | 1.0174 | 0.7300           | 1.0044 |
| 0.9100         | 1.0180 | 0.9400           | 1.0056 |
| 1.1100         | 1.0191 | 1.1500           | 1.0029 |
| 1.3000         | 1.0188 | 1.3500           | 1.0023 |
| 1.5300         | 0.8090 | 1.5500           | 1.0056 |
| 1.7400         | 1.0192 | 1.7500           | 1.0042 |
| 1.9400         | 1.0177 | 1.9500           | 1.0063 |
| 2.1400         | 1.0186 | 2.1600           | 1.0037 |
| 2.3500         | 1.0195 | 2.3700           | 1.0062 |
| 2.5500         | 1.0200 | 2.5800           | 1.0061 |

Flight 19 Test point 1

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = -0.1  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 498.9 Rnpu = 4074000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7037                     | 0.1801                      | 0.0817                  | 0.1 x/c          |
| Outboard station rake | 0.4450                     | 0.1447                      | 0.0550                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1963             | 0.0400           | 0.2290             |
| 0.0500         | 0.4104             | 0.0700           | 0.3772             |
| 0.1100         | 0.5721             | 0.1200           | 0.5979             |
| 0.1700         | 0.6635             | 0.1800           | 0.7138             |
| 0.2200         | 0.7162             | 0.2100           | 0.7820             |
| 0.2700         | 0.7649             | 0.2700           | 0.8526             |
| 0.3200         | 0.8095             | 0.3100           | 0.9080             |
| 0.3600         | 0.8483             | 0.3700           | 0.9529             |
| 0.4100         | 0.8842             | 0.4200           | 0.9842             |
| 0.5100         | 0.9484             | 0.5300           | 1.0002             |
| 0.7200         | 1.0038             | 0.7300           | 1.0013             |
| 0.9100         | 1.0041             | 0.9400           | 1.0032             |
| 1.1100         | 1.0044             | 1.1500           | 0.9993             |
| 1.3000         | 1.0044             | 1.3500           | 0.9987             |
| 1.5300         | 0.9618             | 1.5500           | 1.0019             |
| 1.7400         | 1.0040             | 1.7500           | 1.0017             |
| 1.9400         | 1.0044             | 1.9500           | 1.0028             |
| 2.1400         | 1.0035             | 2.1600           | 1.0015             |
| 2.3500         | 1.0042             | 2.3700           | 1.0030             |
| 2.5500         | 1.0055             | 2.5800           | 1.0021             |

Flight 19 Test point 2

Sweep, deg = 20.1 Mach = 0.70 hp, ft = 9900. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 502.3 Rrho = 4093000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7117                     | 0.2063                      | 0.0909                  | 0.1 x/c          |
| Outboard station rake | 0.5531                     | 0.1719                      | 0.0710                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5862             | 0.0400           | 0.6625             |
| 0.0500         | 0.3790             | 0.0700           | 0.4468             |
| 0.1100         | 0.3504             | 0.1200           | 0.3309             |
| 0.1700         | 0.5626             | 0.1800           | 0.5711             |
| 0.2200         | 0.6531             | 0.2100           | 0.6732             |
| 0.2700         | 0.7144             | 0.2700           | 0.7682             |
| 0.3200         | 0.7713             | 0.3100           | 0.8372             |
| 0.3600         | 0.8161             | 0.3700           | 0.8976             |
| 0.4100         | 0.8547             | 0.4200           | 0.9426             |
| 0.5100         | 0.9308             | 0.5300           | 0.9909             |
| 0.7200         | 1.0025             | 0.7300           | 1.0003             |
| 0.9100         | 1.0029             | 0.9400           | 1.0021             |
| 1.1100         | 1.0027             | 1.1500           | 0.9972             |
| 1.3000         | 1.0042             | 1.3500           | 0.9992             |
| 1.5300         | 0.9674             | 1.5500           | 1.0018             |
| 1.7400         | 1.0042             | 1.7500           | 1.0017             |
| 1.9400         | 1.0045             | 1.9500           | 1.0023             |
| 2.1400         | 1.0030             | 2.1600           | 1.0003             |
| 2.3500         | 1.0041             | 2.3700           | 1.0020             |
| 2.5500         | 1.0046             | 2.5800           | 1.0024             |

Flight 19 Test point 3

Sweep, deg = 20.0 Mach = 0.71 hp, ft = 10100. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 506.4 Rnpu = 4112000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7060                     | 0.1925                      | 0.0818                  | 0.1 x/c          |
| Outboard station rake | 0.4005                     | 0.1331                      | 0.0472                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.0336 | 0.0400           | 0.1654 |
| 0.0500         | 0.3803 | 0.0700           | 0.4164 |
| 0.1100         | 0.5533 | 0.1200           | 0.6257 |
| 0.1700         | 0.6507 | 0.1800           | 0.7448 |
| 0.2200         | 0.7048 | 0.2100           | 0.8183 |
| 0.2700         | 0.7529 | 0.2700           | 0.8924 |
| 0.3200         | 0.7964 | 0.3100           | 0.9458 |
| 0.3600         | 0.8368 | 0.3700           | 0.9829 |
| 0.4100         | 0.8717 | 0.4200           | 0.9979 |
| 0.5100         | 0.9392 | 0.5300           | 1.0000 |
| 0.7200         | 1.0038 | 0.7300           | 1.0016 |
| 0.9100         | 1.0035 | 0.9400           | 1.0032 |
| 1.1100         | 1.0042 | 1.1500           | 0.9991 |
| 1.3000         | 1.0044 | 1.3500           | 1.0000 |
| 1.5300         | 0.9625 | 1.5500           | 1.0024 |
| 1.7400         | 1.0044 | 1.7500           | 1.0028 |
| 1.9400         | 1.0040 | 1.9500           | 1.0026 |
| 2.1400         | 1.0037 | 2.1600           | 1.0018 |
| 2.3500         | 1.0046 | 2.3700           | 1.0034 |
| 2.5500         | 1.0050 | 2.5800           | 1.0022 |



Flight 19 Test point 4

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 10200. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 492.2 R<sub>npu</sub> = 4042000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7145                     | 0.1993                      | 0.0868                  | 0.1 x/c          |
| Outboard station rake | 0.3965                     | 0.1340                      | 0.0456                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1058             | 0.0400           | 0.1057             |
| 0.0500         | 0.3605             | 0.0700           | 0.4239             |
| 0.1100         | 0.5445             | 0.1200           | 0.6273             |
| 0.1700         | 0.6441             | 0.1800           | 0.7467             |
| 0.2200         | 0.6930             | 0.2100           | 0.8195             |
| 0.2700         | 0.7377             | 0.2700           | 0.8943             |
| 0.3200         | 0.7840             | 0.3100           | 0.9470             |
| 0.3600         | 0.8243             | 0.3700           | 0.9848             |
| 0.4100         | 0.8594             | 0.4200           | 0.9989             |
| 0.5100         | 0.9256             | 0.5300           | 0.9994             |
| 0.7200         | 1.0017             | 0.7300           | 1.0013             |
| 0.9100         | 1.0037             | 0.9400           | 1.0028             |
| 1.1100         | 1.0042             | 1.1500           | 0.9989             |
| 1.3000         | 1.0039             | 1.3500           | 0.9996             |
| 1.5300         | 0.9622             | 1.5500           | 1.0017             |
| 1.7400         | 1.0051             | 1.7500           | 1.0019             |
| 1.9400         | 1.0043             | 1.9500           | 1.0031             |
| 2.1400         | 1.0044             | 2.1600           | 1.0010             |
| 2.3500         | 1.0046             | 2.3700           | 1.0039             |
| 2.5500         | 1.0058             | 2.5800           | 1.0026             |

Flight 19 Test point 5

Sweep, deg = 24.9 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 501.5 Rrho = 4099000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7131                     | 0.1621                      | 0.0846                  | 0.1 x/c          |
| Outboard station rake | 0.5072                     | 0.1367                      | 0.0646                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5090             | 0.0400           | 0.4892             |
| 0.0500         | 0.5666             | 0.0700           | 0.5736             |
| 0.1100         | 0.6405             | 0.1200           | 0.6598             |
| 0.1700         | 0.6965             | 0.1800           | 0.7273             |
| 0.2200         | 0.7355             | 0.2100           | 0.7717             |
| 0.2700         | 0.7743             | 0.2700           | 0.8238             |
| 0.3200         | 0.8111             | 0.3100           | 0.8677             |
| 0.3600         | 0.8466             | 0.3700           | 0.9107             |
| 0.4100         | 0.8770             | 0.4200           | 0.9456             |
| 0.5100         | 0.9364             | 0.5300           | 0.9924             |
| 0.7200         | 1.0019             | 0.7300           | 1.0006             |
| 0.9100         | 1.0039             | 0.9400           | 1.0023             |
| 1.1100         | 1.0044             | 1.1500           | 0.9989             |
| 1.3000         | 1.0046             | 1.3500           | 0.9985             |
| 1.5300         | 0.9610             | 1.5500           | 1.0018             |
| 1.7400         | 1.0054             | 1.7500           | 1.0005             |
| 1.9400         | 1.0048             | 1.9500           | 1.0025             |
| 2.1400         | 1.0043             | 2.1600           | 0.9998             |
| 2.3500         | 1.0046             | 2.3700           | 1.0014             |
| 2.5500         | 1.0050             | 2.5800           | 1.0015             |

Flight 19 Test point 6

Sweep, deg = 24.9 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 498.2 Rrho = 4081000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7107                     | 0.1665                      | 0.0862                  | 0.1 x/c          |
| Outboard station rake | 0.4978                     | 0.1379                      | 0.0640                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.4935 | 0.0400           | 0.4679 |
| 0.0500         | 0.5552 | 0.0700           | 0.5616 |
| 0.1100         | 0.6304 | 0.1200           | 0.6532 |
| 0.1700         | 0.6902 | 0.1800           | 0.7215 |
| 0.2200         | 0.7281 | 0.2100           | 0.7691 |
| 0.2700         | 0.7668 | 0.2700           | 0.8247 |
| 0.3200         | 0.8039 | 0.3100           | 0.8705 |
| 0.3600         | 0.8389 | 0.3700           | 0.9138 |
| 0.4100         | 0.8716 | 0.4200           | 0.9497 |
| 0.5100         | 0.9336 | 0.5300           | 0.9970 |
| 0.7200         | 1.0027 | 0.7300           | 1.0060 |
| 0.9100         | 1.0046 | 0.9400           | 1.0070 |
| 1.1100         | 1.0048 | 1.1500           | 1.0036 |
| 1.3000         | 1.0044 | 1.3500           | 1.0031 |
| 1.5300         | 0.9624 | 1.5500           | 1.0058 |
| 1.7400         | 1.0051 | 1.7500           | 1.0058 |
| 1.9400         | 1.0033 | 1.9500           | 1.0055 |
| 2.1400         | 1.0036 | 2.1600           | 1.0048 |
| 2.3500         | 1.0046 | 2.3700           | 1.0057 |
| 2.5500         | 1.0047 | 2.5800           | 1.0061 |

Flight 19 Test point 7

Sweep, deg = 24.9 Mach = 0.70 hp, ft = 10100. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 497.6 Rrho = 4076000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7103                     | 0.1683                      | 0.0862                  | 0.1 x/c          |
| Outboard station rake | 0.4964                     | 0.1411                      | 0.0646                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4785             | 0.0400           | 0.4394             |
| 0.0500         | 0.5448             | 0.0700           | 0.5476             |
| 0.1100         | 0.6254             | 0.1200           | 0.6472             |
| 0.1700         | 0.6839             | 0.1800           | 0.7202             |
| 0.2200         | 0.7238             | 0.2100           | 0.7679             |
| 0.2700         | 0.7648             | 0.2700           | 0.8213             |
| 0.3200         | 0.8028             | 0.3100           | 0.8648             |
| 0.3600         | 0.8389             | 0.3700           | 0.9083             |
| 0.4100         | 0.8731             | 0.4200           | 0.9480             |
| 0.5100         | 0.9346             | 0.5300           | 0.9982             |
| 0.7200         | 1.0028             | 0.7300           | 1.0052             |
| 0.9100         | 1.0037             | 0.9400           | 1.0068             |
| 1.1100         | 1.0049             | 1.1500           | 1.0039             |
| 1.3000         | 1.0046             | 1.3500           | 1.0036             |
| 1.5300         | 0.9626             | 1.5500           | 1.0062             |
| 1.7400         | 1.0040             | 1.7500           | 1.0057             |
| 1.9400         | 1.0050             | 1.9500           | 1.0060             |
| 2.1400         | 1.0038             | 2.1600           | 1.0049             |
| 2.3500         | 1.0041             | 2.3700           | 1.0059             |
| 2.5500         | 1.0044             | 2.5800           | 1.0057             |

Flight 19 Test point 8

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 499.1 Rrho = 4088000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7146                     | 0.1526                      | 0.0823                  | 0.1 x/c          |
| Outboard station rake | 0.5534                     | 0.1273                      | 0.0643                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5778             | 0.0400           | 0.5982             |
| 0.0500         | 0.6135             | 0.0700           | 0.6367             |
| 0.1100         | 0.6663             | 0.1200           | 0.6940             |
| 0.1700         | 0.7165             | 0.1800           | 0.7463             |
| 0.2200         | 0.7509             | 0.2100           | 0.7847             |
| 0.2700         | 0.7887             | 0.2700           | 0.8312             |
| 0.3200         | 0.8208             | 0.3100           | 0.8702             |
| 0.3600         | 0.8533             | 0.3700           | 0.9080             |
| 0.4100         | 0.8816             | 0.4200           | 0.9406             |
| 0.5100         | 0.9364             | 0.5300           | 0.9885             |
| 0.7200         | 1.0015             | 0.7300           | 1.0021             |
| 0.9100         | 1.0040             | 0.9400           | 1.0019             |
| 1.1100         | 1.0064             | 1.1500           | 0.9993             |
| 1.3000         | 1.0054             | 1.3500           | 0.9986             |
| 1.5300         | 0.9583             | 1.5500           | 1.0022             |
| 1.7400         | 1.0053             | 1.7500           | 1.0010             |
| 1.9400         | 1.0041             | 1.9500           | 1.0025             |
| 2.1400         | 1.0053             | 2.1600           | 1.0000             |
| 2.3500         | 1.0047             | 2.3700           | 1.0022             |
| 2.5500         | 1.0051             | 2.5800           | 1.0017             |

Flight 19 Test point 9

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 10200. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 494.9 Rrho = 4054000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7157                     | 0.1549                      | 0.0833                  | 0.1 x/c          |
| Outboard station rake | 0.5597                     | 0.1288                      | 0.0650                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5748             | 0.0400           | 0.5942             |
| 0.0500         | 0.6069             | 0.0700           | 0.6335             |
| 0.1100         | 0.6618             | 0.1200           | 0.6912             |
| 0.1700         | 0.7117             | 0.1800           | 0.7427             |
| 0.2200         | 0.7464             | 0.2100           | 0.7809             |
| 0.2700         | 0.7853             | 0.2700           | 0.8284             |
| 0.3200         | 0.8186             | 0.3100           | 0.8681             |
| 0.3600         | 0.8510             | 0.3700           | 0.9072             |
| 0.4100         | 0.8797             | 0.4200           | 0.9396             |
| 0.5100         | 0.9338             | 0.5300           | 0.9860             |
| 0.7200         | 1.0012             | 0.7300           | 1.0013             |
| 0.9100         | 1.0038             | 0.9400           | 1.0025             |
| 1.1100         | 1.0051             | 1.1500           | 1.0007             |
| 1.3000         | 1.0046             | 1.3500           | 0.9997             |
| 1.5300         | 0.9586             | 1.5500           | 1.0017             |
| 1.7400         | 1.0067             | 1.7500           | 1.0019             |
| 1.9400         | 1.0045             | 1.9500           | 1.0019             |
| 2.1400         | 1.0049             | 2.1600           | 1.0011             |
| 2.3500         | 1.0053             | 2.3700           | 1.0021             |
| 2.5500         | 1.0053             | 2.5800           | 1.0011             |

Flight 19 Test point 10

Sweep, deg = 30.1 Mach = 0.70 hp, ft = 10200. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 497.8 Rrho = 4063000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7224                     | 0.1604                      | 0.0860                  | 0.1 x/c          |
| Outboard station rake | 0.5599                     | 0.1332                      | 0.0666                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5700             | 0.0400           | 0.5816             |
| 0.0500         | 0.6060             | 0.0700           | 0.6229             |
| 0.1100         | 0.6592             | 0.1200           | 0.6838             |
| 0.1700         | 0.7058             | 0.1800           | 0.7348             |
| 0.2200         | 0.7387             | 0.2100           | 0.7741             |
| 0.2700         | 0.7766             | 0.2700           | 0.8209             |
| 0.3200         | 0.8090             | 0.3100           | 0.8617             |
| 0.3600         | 0.8406             | 0.3700           | 0.9005             |
| 0.4100         | 0.8702             | 0.4200           | 0.9342             |
| 0.5100         | 0.9266             | 0.5300           | 0.9851             |
| 0.7200         | 0.9993             | 0.7300           | 1.0018             |
| 0.9100         | 1.0043             | 0.9400           | 1.0033             |
| 1.1100         | 1.0055             | 1.1500           | 1.0012             |
| 1.3000         | 1.0050             | 1.3500           | 0.9991             |
| 1.5300         | 0.9597             | 1.5500           | 1.0015             |
| 1.7400         | 1.0055             | 1.7500           | 1.0010             |
| 1.9400         | 1.0044             | 1.9500           | 1.0030             |
| 2.1400         | 1.0049             | 2.1600           | 0.9999             |
| 2.3500         | 1.0061             | 2.3700           | 1.0026             |
| 2.5500         | 1.0052             | 2.5800           | 1.0015             |

Flight 19 Test point 11

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 502.2 Rrho = 4099000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7199                     | 0.1518                      | 0.0828                  | 0.1 x/c          |
| Outboard station rake | 0.5581                     | 0.1244                      | 0.0636                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5902             | 0.0400           | 0.6178             |
| 0.0500         | 0.6196             | 0.0700           | 0.6450             |
| 0.1100         | 0.6723             | 0.1200           | 0.7045             |
| 0.1700         | 0.7220             | 0.1800           | 0.7532             |
| 0.2200         | 0.7556             | 0.2100           | 0.7924             |
| 0.2700         | 0.7901             | 0.2700           | 0.8362             |
| 0.3200         | 0.8208             | 0.3100           | 0.8742             |
| 0.3600         | 0.8519             | 0.3700           | 0.9074             |
| 0.4100         | 0.8796             | 0.4200           | 0.9397             |
| 0.5100         | 0.9326             | 0.5300           | 0.9867             |
| 0.7200         | 1.0000             | 0.7300           | 1.0025             |
| 0.9100         | 1.0045             | 0.9400           | 1.0027             |
| 1.1100         | 1.0067             | 1.1500           | 1.0005             |
| 1.3000         | 1.0065             | 1.3500           | 0.9985             |
| 1.5300         | 0.9526             | 1.5500           | 1.0023             |
| 1.7400         | 1.0057             | 1.7500           | 1.0015             |
| 1.9400         | 1.0057             | 1.9500           | 1.0020             |
| 2.1400         | 1.0052             | 2.1600           | 1.0002             |
| 2.3500         | 1.0065             | 2.3700           | 1.0016             |
| 2.5500         | 1.0063             | 2.5800           | 1.0016             |



Flight 19 Test point 12

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 502.9 Rrho = 4102000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7296                     | 0.1578                      | 0.0856                  | 0.1 x/c          |
| Outboard station rake | 0.5783                     | 0.1304                      | 0.0665                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5838             | 0.0400           | 0.6083             |
| 0.0500         | 0.6138             | 0.0700           | 0.6397             |
| 0.1100         | 0.6663             | 0.1200           | 0.6969             |
| 0.1700         | 0.7138             | 0.1800           | 0.7449             |
| 0.2200         | 0.7455             | 0.2100           | 0.7822             |
| 0.2700         | 0.7806             | 0.2700           | 0.8261             |
| 0.3200         | 0.8126             | 0.3100           | 0.8646             |
| 0.3600         | 0.8438             | 0.3700           | 0.9000             |
| 0.4100         | 0.8714             | 0.4200           | 0.9301             |
| 0.5100         | 0.9255             | 0.5300           | 0.9804             |
| 0.7200         | 0.9971             | 0.7300           | 1.0024             |
| 0.9100         | 1.0048             | 0.9400           | 1.0030             |
| 1.1100         | 1.0065             | 1.1500           | 1.0014             |
| 1.3000         | 1.0061             | 1.3500           | 0.9993             |
| 1.5300         | 0.9542             | 1.5500           | 1.0025             |
| 1.7400         | 1.0063             | 1.7500           | 1.0021             |
| 1.9400         | 1.0066             | 1.9500           | 1.0036             |
| 2.1400         | 1.0051             | 2.1600           | 1.0002             |
| 2.3500         | 1.0069             | 2.3700           | 1.0025             |
| 2.5500         | 1.0063             | 2.5800           | 1.0027             |

Flight 19 Test point 13

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 4.7  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 171.1 Rrho = 1678000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9235                     | 0.2267                      | 0.1188                  | 0.1 x/c          |
| Outboard station rake | 0.7534                     | 0.1937                      | 0.0978                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5217             | 0.0400           | 0.5362             |
| 0.0500         | 0.5509             | 0.0700           | 0.5569             |
| 0.1100         | 0.5954             | 0.1200           | 0.6199             |
| 0.1700         | 0.6405             | 0.1800           | 0.6597             |
| 0.2200         | 0.6673             | 0.2100           | 0.6842             |
| 0.2700         | 0.7001             | 0.2700           | 0.7300             |
| 0.3200         | 0.7324             | 0.3100           | 0.7758             |
| 0.3600         | 0.7624             | 0.3700           | 0.8003             |
| 0.4100         | 0.7847             | 0.4200           | 0.8418             |
| 0.5100         | 0.8362             | 0.5300           | 0.9009             |
| 0.7200         | 0.9435             | 0.7300           | 0.9907             |
| 0.9100         | 0.9966             | 0.9400           | 1.0026             |
| 1.1100         | 1.0062             | 1.1500           | 0.9961             |
| 1.3000         | 1.0077             | 1.3500           | 0.9907             |
| 1.5300         | 0.9431             | 1.5500           | 0.9994             |
| 1.7400         | 1.0098             | 1.7500           | 1.0003             |
| 1.9400         | 1.0073             | 1.9500           | 1.0057             |
| 2.1400         | 1.0129             | 2.1600           | 0.9977             |
| 2.3500         | 1.0092             | 2.3700           | 1.0028             |
| 2.5500         | 1.0073             | 2.5800           | 1.0048             |

Flight 19 Test point 14

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 35400. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 169.1 Rnpu = 1653000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7058                     | 0.1560                      | 0.0836                  | 0.1 x/c          |
| Outboard station rake | 0.6676                     | 0.1210                      | 0.0607                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5748             | 0.0400           | 0.5997             |
| 0.0500         | 0.5935             | 0.0700           | 0.6350             |
| 0.1100         | 0.6480             | 0.1200           | 0.7024             |
| 0.1700         | 0.7093             | 0.1800           | 0.7537             |
| 0.2200         | 0.7386             | 0.2100           | 0.7921             |
| 0.2700         | 0.7823             | 0.2700           | 0.8438             |
| 0.3200         | 0.8123             | 0.3100           | 0.8896             |
| 0.3600         | 0.8519             | 0.3700           | 0.9231             |
| 0.4100         | 0.8794             | 0.4200           | 0.9600             |
| 0.5100         | 0.9361             | 0.5300           | 0.9951             |
| 0.7200         | 1.0040             | 0.7300           | 1.0019             |
| 0.9100         | 1.0052             | 0.9400           | 1.0029             |
| 1.1100         | 1.0086             | 1.1500           | 0.9976             |
| 1.3000         | 1.0097             | 1.3500           | 0.9917             |
| 1.5300         | 0.9364             | 1.5500           | 1.0029             |
| 1.7400         | 1.0083             | 1.7500           | 1.0016             |
| 1.9400         | 1.0091             | 1.9500           | 1.0052             |
| 2.1400         | 1.0088             | 2.1600           | 0.9970             |
| 2.3500         | 1.0048             | 2.3700           | 1.0010             |
| 2.5500         | 1.0051             | 2.5800           | 1.0029             |

Flight 19 Test point 15

Sweep, deg = 34.5 Mach = 0.70 hp, ft = 35500. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 167.2 Rnpu = 1639000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7174                     | 0.1641                      | 0.0873                  | 0.1 x/c          |
| Outboard station rake | 0.3228                     | 0.0785                      | 0.0362                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5632             | 0.0400           | 0.6573             |
| 0.0500         | 0.5751             | 0.0700           | 0.6997             |
| 0.1100         | 0.6364             | 0.1200           | 0.7813             |
| 0.1700         | 0.6899             | 0.1800           | 0.8498             |
| 0.2200         | 0.7241             | 0.2100           | 0.8968             |
| 0.2700         | 0.7623             | 0.2700           | 0.9547             |
| 0.3200         | 0.8004             | 0.3100           | 0.9895             |
| 0.3600         | 0.8429             | 0.3700           | 0.9957             |
| 0.4100         | 0.8719             | 0.4200           | 1.0040             |
| 0.5100         | 0.9283             | 0.5300           | 0.9989             |
| 0.7200         | 1.0003             | 0.7300           | 1.0033             |
| 0.9100         | 1.0005             | 0.9400           | 1.0054             |
| 1.1100         | 1.0023             | 1.1500           | 0.9976             |
| 1.3000         | 1.0036             | 1.3500           | 0.9892             |
| 1.5300         | 0.9729             | 1.5500           | 1.0037             |
| 1.7400         | 1.0053             | 1.7500           | 1.0030             |
| 1.9400         | 1.0051             | 1.9500           | 1.0056             |
| 2.1400         | 1.0046             | 2.1600           | 0.9994             |
| 2.3500         | 1.0021             | 2.3700           | 1.0008             |
| 2.5500         | 1.0027             | 2.5800           | 1.0038             |

Flight 19 Test point 16

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 4.0  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 173.0 Rrho = 1685000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9492                     | 0.2033                      | 0.1042                  | 0.1 x/c          |
| Outboard station rake | 0.7296                     | 0.1779                      | 0.0869                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5066             | 0.0400           | 0.4920             |
| 0.0500         | 0.5306             | 0.0700           | 0.5440             |
| 0.1100         | 0.5893             | 0.1200           | 0.6194             |
| 0.1700         | 0.6441             | 0.1800           | 0.6631             |
| 0.2200         | 0.6762             | 0.2100           | 0.6978             |
| 0.2700         | 0.7133             | 0.2700           | 0.7521             |
| 0.3200         | 0.7473             | 0.3100           | 0.8001             |
| 0.3600         | 0.7884             | 0.3700           | 0.8342             |
| 0.4100         | 0.8195             | 0.4200           | 0.8785             |
| 0.5100         | 0.8776             | 0.5300           | 0.9435             |
| 0.7200         | 0.9859             | 0.7300           | 1.0001             |
| 0.9100         | 0.9978             | 0.9400           | 1.0023             |
| 1.1100         | 1.0008             | 1.1500           | 0.9970             |
| 1.3000         | 1.0029             | 1.3500           | 0.9921             |
| 1.5300         | 0.9801             | 1.5500           | 1.0010             |
| 1.7400         | 1.0040             | 1.7500           | 1.0001             |
| 1.9400         | 1.0035             | 1.9500           | 1.0038             |
| 2.1400         | 1.0035             | 2.1600           | 0.9983             |
| 2.3500         | 1.0041             | 2.3700           | 1.0018             |
| 2.5500         | 1.0034             | 2.5800           | 1.0035             |

Flight 19 Test point 17

Sweep, deg = 29.7 Mach = 0.70 hp, ft = 34600. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 171.8 Rrho = 1686000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7163                     | 0.1621                      | 0.0861                  | 0.1 x/c          |
| Outboard station rake | 0.2955                     | 0.0679                      | 0.0300                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5531             | 0.0400           | 0.6774             |
| 0.0500         | 0.5790             | 0.0700           | 0.7270             |
| 0.1100         | 0.6383             | 0.1200           | 0.8162             |
| 0.1700         | 0.6890             | 0.1800           | 0.8899             |
| 0.2200         | 0.7225             | 0.2100           | 0.9409             |
| 0.2700         | 0.7721             | 0.2700           | 0.9841             |
| 0.3200         | 0.8033             | 0.3100           | 0.9995             |
| 0.3600         | 0.8462             | 0.3700           | 0.9992             |
| 0.4100         | 0.8782             | 0.4200           | 1.0050             |
| 0.5100         | 0.9323             | 0.5300           | 1.0022             |
| 0.7200         | 1.0011             | 0.7300           | 1.0030             |
| 0.9100         | 0.9993             | 0.9400           | 1.0050             |
| 1.1100         | 1.0045             | 1.1500           | 0.9954             |
| 1.3000         | 1.0046             | 1.3500           | 0.9908             |
| 1.5300         | 0.9717             | 1.5500           | 1.0025             |
| 1.7400         | 1.0058             | 1.7500           | 1.0054             |
| 1.9400         | 1.0052             | 1.9500           | 1.0053             |
| 2.1400         | 1.0029             | 2.1600           | 1.0021             |
| 2.3500         | 1.0036             | 2.3700           | 0.9977             |
| 2.5500         | 1.0013             | 2.5800           | 1.0028             |

Flight 19 Test point 18

Sweep, deg = 29.7 Mach = 0.70 hp, ft = 34800. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 171.3 Rrho = 1678000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7164                     | 0.1676                      | 0.0885                  | 0.1 x/c          |
| Outboard station rake | 0.2853                     | 0.0652                      | 0.0285                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5442             | 0.0400           | 0.6846             |
| 0.0500         | 0.5767             | 0.0700           | 0.7383             |
| 0.1100         | 0.6330             | 0.1200           | 0.8311             |
| 0.1700         | 0.6874             | 0.1800           | 0.9009             |
| 0.2200         | 0.7190             | 0.2100           | 0.9422             |
| 0.2700         | 0.7642             | 0.2700           | 0.9861             |
| 0.3200         | 0.7939             | 0.3100           | 1.0013             |
| 0.3600         | 0.8351             | 0.3700           | 1.0002             |
| 0.4100         | 0.8636             | 0.4200           | 1.0024             |
| 0.5100         | 0.9253             | 0.5300           | 1.0017             |
| 0.7200         | 1.0011             | 0.7300           | 1.0027             |
| 0.9100         | 0.9992             | 0.9400           | 1.0047             |
| 1.1100         | 1.0028             | 1.1500           | 0.9957             |
| 1.3000         | 1.0036             | 1.3500           | 0.9889             |
| 1.5300         | 0.9738             | 1.5500           | 1.0040             |
| 1.7400         | 1.0050             | 1.7500           | 1.0025             |
| 1.9400         | 1.0034             | 1.9500           | 1.0037             |
| 2.1400         | 1.0065             | 2.1600           | 1.0011             |
| 2.3500         | 1.0036             | 2.3700           | 1.0009             |
| 2.5500         | 1.0009             | 2.5800           | 1.0040             |

Flight 19 Test point 19

Sweep, deg = 25.1 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 3.7  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 172.1 Rrho = 1680000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9318                     | 0.2142                      | 0.1055                  | 0.1 x/c          |
| Outboard station rake | 0.7285                     | 0.2043                      | 0.0866                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4141             | 0.0400           | 0.2228             |
| 0.0500         | 0.4742             | 0.0700           | 0.3813             |
| 0.1100         | 0.5550             | 0.1200           | 0.5423             |
| 0.1700         | 0.6333             | 0.1800           | 0.6214             |
| 0.2200         | 0.6624             | 0.2100           | 0.6645             |
| 0.2700         | 0.7001             | 0.2700           | 0.7294             |
| 0.3200         | 0.7357             | 0.3100           | 0.7853             |
| 0.3600         | 0.7783             | 0.3700           | 0.8262             |
| 0.4100         | 0.8082             | 0.4200           | 0.8652             |
| 0.5100         | 0.8769             | 0.5300           | 0.9447             |
| 0.7200         | 0.9853             | 0.7300           | 1.0004             |
| 0.9100         | 0.9986             | 0.9400           | 1.0041             |
| 1.1100         | 1.0002             | 1.1500           | 0.9958             |
| 1.3000         | 1.0018             | 1.3500           | 0.9916             |
| 1.5300         | 1.0010             | 1.5500           | 1.0025             |
| 1.7400         | 1.0006             | 1.7500           | 1.0021             |
| 1.9400         | 1.0019             | 1.9500           | 1.0026             |
| 2.1400         | 0.9980             | 2.1600           | 0.9988             |
| 2.3500         | 0.9974             | 2.3700           | 0.9994             |
| 2.5500         | 1.0005             | 2.5800           | 1.0027             |



Flight 19 Test point 20

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 34800. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 172.1 RnpU = 1682000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7284                     | 0.1790                      | 0.0912                  | 0.1 x/c          |
| Outboard station rake | 0.2774                     | 0.0621                      | 0.0262                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4618             | 0.0400           | 0.6699             |
| 0.0500         | 0.5234             | 0.0700           | 0.7461             |
| 0.1100         | 0.6066             | 0.1200           | 0.8466             |
| 0.1700         | 0.6664             | 0.1800           | 0.9223             |
| 0.2200         | 0.7039             | 0.2100           | 0.9615             |
| 0.2700         | 0.7499             | 0.2700           | 0.9892             |
| 0.3200         | 0.7866             | 0.3100           | 1.0011             |
| 0.3600         | 0.8259             | 0.3700           | 0.9978             |
| 0.4100         | 0.8605             | 0.4200           | 1.0008             |
| 0.5100         | 0.9210             | 0.5300           | 1.0017             |
| 0.7200         | 0.9973             | 0.7300           | 1.0012             |
| 0.9100         | 0.9986             | 0.9400           | 1.0047             |
| 1.1100         | 1.0017             | 1.1500           | 0.9948             |
| 1.3000         | 0.9986             | 1.3500           | 0.9904             |
| 1.5300         | 1.0043             | 1.5500           | 1.0033             |
| 1.7400         | 1.0012             | 1.7500           | 1.0030             |
| 1.9400         | 1.0020             | 1.9500           | 1.0044             |
| 2.1400         | 0.9991             | 2.1600           | 0.9998             |
| 2.3500         | 0.9979             | 2.3700           | 0.9999             |
| 2.5500         | 0.9993             | 2.5800           | 1.0080             |

Flight 19 Test point 21

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 34600. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.5 QBAR, lb/ft<sup>2</sup> = 174.1 Rrho = 1700000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | 0.7234                        | 0.1846                         | 0.0934                     | 0.1 x/c             |
| Outboard station rake | 0.3029                        | 0.0708                         | 0.0306                     | none                |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4562             | 0.0400           | 0.6274             |
| 0.0500         | 0.5149             | 0.0700           | 0.7108             |
| 0.1100         | 0.5902             | 0.1200           | 0.8167             |
| 0.1700         | 0.6582             | 0.1800           | 0.8948             |
| 0.2200         | 0.6967             | 0.2100           | 0.9415             |
| 0.2700         | 0.7438             | 0.2700           | 0.9813             |
| 0.3200         | 0.7772             | 0.3100           | 1.0028             |
| 0.3600         | 0.8180             | 0.3700           | 1.0004             |
| 0.4100         | 0.8499             | 0.4200           | 1.0050             |
| 0.5100         | 0.9134             | 0.5300           | 1.0014             |
| 0.7200         | 0.9988             | 0.7300           | 1.0033             |
| 0.9100         | 0.9978             | 0.9400           | 1.0064             |
| 1.1100         | 1.0013             | 1.1500           | 0.9931             |
| 1.3000         | 0.9994             | 1.3500           | 0.9919             |
| 1.5300         | 1.0031             | 1.5500           | 1.0013             |
| 1.7400         | 1.0005             | 1.7500           | 1.0022             |
| 1.9400         | 1.0004             | 1.9500           | 1.0026             |
| 2.1400         | 1.0000             | 2.1600           | 1.0025             |
| 2.3500         | 0.9989             | 2.3700           | 1.0030             |
| 2.5500         | 0.9997             | 2.5800           | 1.0029             |

Flight 19 Test point 22

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 3.2  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 170.8 Rrho = 1674000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9469                     | 0.2474                      | 0.1068                  | 0.1 x/c          |
| Outboard station rake | 0.5433                     | 0.1716                      | 0.0694                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2767             | 0.0400           | 0.5313             |
| 0.0500         | 0.2218             | 0.0700           | 0.2904             |
| 0.1100         | 0.4572             | 0.1200           | 0.4527             |
| 0.1700         | 0.5653             | 0.1800           | 0.6219             |
| 0.2200         | 0.6192             | 0.2100           | 0.6948             |
| 0.2700         | 0.6837             | 0.2700           | 0.7825             |
| 0.3200         | 0.7150             | 0.3100           | 0.8467             |
| 0.3600         | 0.7597             | 0.3700           | 0.8985             |
| 0.4100         | 0.7943             | 0.4200           | 0.9464             |
| 0.5100         | 0.8626             | 0.5300           | 0.9947             |
| 0.7200         | 0.9793             | 0.7300           | 1.0001             |
| 0.9100         | 0.9970             | 0.9400           | 1.0054             |
| 1.1100         | 1.0010             | 1.1500           | 0.9950             |
| 1.3000         | 1.0008             | 1.3500           | 0.9927             |
| 1.5300         | 1.0044             | 1.5500           | 1.0029             |
| 1.7400         | 1.0003             | 1.7500           | 1.0027             |
| 1.9400         | 0.9997             | 1.9500           | 1.0051             |
| 2.1400         | 0.9989             | 2.1600           | 0.9999             |
| 2.3500         | 0.9974             | 2.3700           | 0.9997             |
| 2.5500         | 1.0005             | 2.5800           | 1.0017             |

Flight 19 Test point 23

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 34600. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 175.0 Rnpu = 1706000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7302                     | 0.2130                      | 0.0925                  | 0.1 x/c          |
| Outboard station rake | 0.3077                     | 0.0866                      | 0.0340                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.0887             | 0.0400           | 0.4067             |
| 0.0500         | 0.3459             | 0.0700           | 0.6129             |
| 0.1100         | 0.5240             | 0.1200           | 0.7791             |
| 0.1700         | 0.6237             | 0.1800           | 0.8773             |
| 0.2200         | 0.6671             | 0.2100           | 0.9312             |
| 0.2700         | 0.7207             | 0.2700           | 0.9759             |
| 0.3200         | 0.7598             | 0.3100           | 0.9972             |
| 0.3600         | 0.8069             | 0.3700           | 0.9993             |
| 0.4100         | 0.8352             | 0.4200           | 1.0029             |
| 0.5100         | 0.9065             | 0.5300           | 1.0010             |
| 0.7200         | 0.9962             | 0.7300           | 1.0034             |
| 0.9100         | 0.9960             | 0.9400           | 1.0065             |
| 1.1100         | 1.0017             | 1.1500           | 0.9974             |
| 1.3000         | 1.0016             | 1.3500           | 0.9938             |
| 1.5300         | 1.0032             | 1.5500           | 1.0038             |
| 1.7400         | 1.0018             | 1.7500           | 1.0063             |
| 1.9400         | 1.0011             | 1.9500           | 1.0049             |
| 2.1400         | 0.9995             | 2.1600           | 1.0011             |
| 2.3500         | 0.9991             | 2.3700           | 1.0023             |
| 2.5500         | 0.9999             | 2.5800           | 1.0042             |

Flight 19 Test point 24

Sweep, deg = 20.0 Mach = 0.71 hp, ft = 35000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 173.2 Rrho = 1689000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 1.2796                     | 0.2279                      | 0.0992                  | 0.1 x/c          |
| Outboard station rake | 0.3340                     | 0.1124                      | 0.0371                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1793             | 0.0400           | 0.1261             |
| 0.0500         | 0.2943             | 0.0700           | 0.4963             |
| 0.1100         | 0.4919             | 0.1200           | 0.7108             |
| 0.1700         | 0.6009             | 0.1800           | 0.8202             |
| 0.2200         | 0.6508             | 0.2100           | 0.8821             |
| 0.2700         | 0.6996             | 0.2700           | 0.9450             |
| 0.3200         | 0.7417             | 0.3100           | 0.9804             |
| 0.3600         | 0.7846             | 0.3700           | 0.9940             |
| 0.4100         | 0.8188             | 0.4200           | 1.0007             |
| 0.5100         | 0.8885             | 0.5300           | 0.9971             |
| 0.7200         | 0.9948             | 0.7300           | 1.0038             |
| 0.9100         | 0.9969             | 0.9400           | 1.0047             |
| 1.1100         | 1.0011             | 1.1500           | 0.9934             |
| 1.3000         | 0.9995             | 1.3500           | 0.9913             |
| 1.5300         | 1.0026             | 1.5500           | 1.0023             |
| 1.7400         | 0.9994             | 1.7500           | 1.0035             |
| 1.9400         | 1.0014             | 1.9500           | 1.0041             |
| 2.1400         | 1.0022             | 2.1600           | 0.9995             |
| 2.3500         | 0.9981             | 2.3700           | 1.0013             |
| 2.5500         | 0.9987             | 2.5800           | 1.0042             |

Flight 19 Test point 25

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 35000. Angle of attack, deg = 2.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 197.2 Rnpu = 1815000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9129                     | 0.2910                      | 0.1147                  | 0.1 x/c          |
| Outboard station rake | 0.7465                     | 0.1935                      | 0.0836                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.0675             | 0.0400           | 0.1765             |
| 0.0500         | 0.2622             | 0.0700           | 0.4057             |
| 0.1100         | 0.4008             | 0.1200           | 0.5985             |
| 0.1700         | 0.5039             | 0.1800           | 0.6880             |
| 0.2200         | 0.5451             | 0.2100           | 0.7140             |
| 0.2700         | 0.5929             | 0.2700           | 0.7710             |
| 0.3200         | 0.6287             | 0.3100           | 0.8107             |
| 0.3600         | 0.6867             | 0.3700           | 0.8416             |
| 0.4100         | 0.7256             | 0.4200           | 0.8777             |
| 0.5100         | 0.8135             | 0.5300           | 0.9329             |
| 0.7200         | 0.9734             | 0.7300           | 0.9955             |
| 0.9100         | 0.9996             | 0.9400           | 1.0048             |
| 1.1100         | 1.0023             | 1.1500           | 0.9952             |
| 1.3000         | 1.0045             | 1.3500           | 0.9928             |
| 1.5300         | 1.0041             | 1.5500           | 1.0030             |
| 1.7400         | 1.0009             | 1.7500           | 1.0001             |
| 1.9400         | 0.9996             | 1.9500           | 1.0040             |
| 2.1400         | 0.9975             | 2.1600           | 1.0006             |
| 2.3500         | 0.9959             | 2.3700           | 1.0011             |
| 2.5500         | 0.9955             | 2.5800           | 1.0030             |

Flight 19 Test point 26

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 34900. Angle of attack, deg = 2.6  
 Angle of sideslip, deg = -5.2 QBAR, lb/ft<sup>2</sup> = 198.0 Rnpu = 1819000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9180                     | 0.3930                      | 0.1323                  | 0.1 x/c          |
| Outboard station rake | 0.7338                     | 0.1864                      | 0.0841                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4922             | 0.0400           | 0.7170             |
| 0.0500         | 0.4711             | 0.0700           | 0.4543             |
| 0.1100         | 0.3635             | 0.1200           | 0.3814             |
| 0.1700         | 0.2138             | 0.1800           | 0.5955             |
| 0.2200         | 0.1639             | 0.2100           | 0.6699             |
| 0.2700         | 0.3164             | 0.2700           | 0.7535             |
| 0.3200         | 0.4095             | 0.3100           | 0.8095             |
| 0.3600         | 0.4962             | 0.3700           | 0.8520             |
| 0.4100         | 0.5541             | 0.4200           | 0.8935             |
| 0.5100         | 0.6703             | 0.5300           | 0.9471             |
| 0.7200         | 0.9145             | 0.7300           | 0.9991             |
| 0.9100         | 0.9968             | 0.9400           | 1.0055             |
| 1.1100         | 1.0012             | 1.1500           | 0.9949             |
| 1.3000         | 1.0009             | 1.3500           | 0.9910             |
| 1.5300         | 1.0046             | 1.5500           | 1.0026             |
| 1.7400         | 1.0028             | 1.7500           | 1.0002             |
| 1.9400         | 1.0019             | 1.9500           | 1.0013             |
| 2.1400         | 1.0009             | 2.1600           | 1.0015             |
| 2.3500         | 0.9972             | 2.3700           | 1.0013             |
| 2.5500         | 0.9938             | 2.5800           | 1.0025             |

Flight 19 Test point 27

Sweep, deg = 20.0 Mach = 0.74 hp, ft = 34900. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = 0.6 QBAR, lb/ft<sup>2</sup> = 192.9 Rrho = 1792000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7059                     | 0.2244                      | 0.0940                  | 0.1 x/c          |
| Outboard station rake | 0.3265                     | 0.0911                      | 0.0359                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2296             | 0.0400           | 0.3865             |
| 0.0500         | 0.2630             | 0.0700           | 0.6062             |
| 0.1100         | 0.4784             | 0.1200           | 0.7697             |
| 0.1700         | 0.5858             | 0.1800           | 0.8601             |
| 0.2200         | 0.6457             | 0.2100           | 0.9165             |
| 0.2700         | 0.7041             | 0.2700           | 0.9640             |
| 0.3200         | 0.7427             | 0.3100           | 0.9893             |
| 0.3600         | 0.7918             | 0.3700           | 0.9978             |
| 0.4100         | 0.8268             | 0.4200           | 1.0008             |
| 0.5100         | 0.9023             | 0.5300           | 0.9990             |
| 0.7200         | 1.0063             | 0.7300           | 1.0020             |
| 0.9100         | 1.0052             | 0.9400           | 1.0064             |
| 1.1100         | 1.0098             | 1.1500           | 0.9944             |
| 1.3000         | 1.0111             | 1.3500           | 0.9937             |
| 1.5300         | 1.0148             | 1.5500           | 1.0026             |
| 1.7400         | 1.0092             | 1.7500           | 1.0028             |
| 1.9400         | 1.0115             | 1.9500           | 1.0051             |
| 2.1400         | 1.0105             | 2.1600           | 0.9993             |
| 2.3500         | 1.0105             | 2.3700           | 1.0044             |
| 2.5500         | 1.0088             | 2.5800           | 1.0024             |



Flight 19 Test point 28

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 34900. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.6 QBAR, lb/ft<sup>2</sup> = 197.3 RrhoU = 1817000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6752                     | 0.2398                      | 0.0953                  | 0.1 x/c          |
| Outboard station rake | 0.3890                     | 0.1220                      | 0.0418                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.2567 | 0.0400           | 0.1395 |
| 0.0500         | 0.2386 | 0.0700           | 0.4615 |
| 0.1100         | 0.4435 | 0.1200           | 0.6894 |
| 0.1700         | 0.5656 | 0.1800           | 0.7985 |
| 0.2200         | 0.6274 | 0.2100           | 0.8530 |
| 0.2700         | 0.6785 | 0.2700           | 0.9160 |
| 0.3200         | 0.7217 | 0.3100           | 0.9589 |
| 0.3600         | 0.7692 | 0.3700           | 0.9818 |
| 0.4100         | 0.8081 | 0.4200           | 0.9971 |
| 0.5100         | 0.8870 | 0.5300           | 1.0019 |
| 0.7200         | 1.0062 | 0.7300           | 1.0023 |
| 0.9100         | 1.0130 | 0.9400           | 1.0052 |
| 1.1100         | 1.0168 | 1.1500           | 0.9953 |
| 1.3000         | 1.0159 | 1.3500           | 0.9955 |
| 1.5300         | 0.8747 | 1.5500           | 1.0040 |
| 1.7400         | 1.0173 | 1.7500           | 1.0026 |
| 1.9400         | 1.0175 | 1.9500           | 1.0052 |
| 2.1400         | 1.0146 | 2.1600           | 1.0004 |
| 2.3500         | 1.0158 | 2.3700           | 1.0031 |
| 2.5500         | 1.0144 | 2.5800           | 1.0057 |

Flight 19 Test point 29

Sweep, deg = 25.3 Mach = 0.75 hp, ft = 34900. Angle of attack, deg = 2.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 196.0 Rrho = 1808000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7740                     | 0.2249                      | 0.1055                  | 0.1 x/c          |
| Outboard station rake | 0.6434                     | 0.1118                      | 0.0548                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.3947 | 0.0400           | 0.5814 |
| 0.0500         | 0.4570 | 0.0700           | 0.6783 |
| 0.1100         | 0.5487 | 0.1200           | 0.7685 |
| 0.1700         | 0.6008 | 0.1800           | 0.8249 |
| 0.2200         | 0.6386 | 0.2100           | 0.8530 |
| 0.2700         | 0.6838 | 0.2700           | 0.8898 |
| 0.3200         | 0.7223 | 0.3100           | 0.9164 |
| 0.3600         | 0.7605 | 0.3700           | 0.9313 |
| 0.4100         | 0.7913 | 0.4200           | 0.9506 |
| 0.5100         | 0.8663 | 0.5300           | 0.9766 |
| 0.7200         | 0.9942 | 0.7300           | 1.0019 |
| 0.9100         | 1.0131 | 0.9400           | 1.0078 |
| 1.1100         | 1.0141 | 1.1500           | 0.9967 |
| 1.3000         | 1.0149 | 1.3500           | 0.9963 |
| 1.5300         | 0.8892 | 1.5500           | 1.0042 |
| 1.7400         | 1.0134 | 1.7500           | 1.0047 |
| 1.9400         | 1.0147 | 1.9500           | 1.0061 |
| 2.1400         | 1.0149 | 2.1600           | 0.9992 |
| 2.3500         | 1.0115 | 2.3700           | 1.0009 |
| 2.5500         | 1.0141 | 2.5800           | 1.0056 |

Flight 19 Test point 30

Sweep, deg = 25.3 Mach = 0.75 hp, ft = 34900. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 197.7 Rnpu = 1820000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6990                     | 0.1945                      | 0.0927                  | 0.1 x/c          |
| Outboard station rake | 0.2996                     | 0.0703                      | 0.0301                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4104             | 0.0400           | 0.6380             |
| 0.0500         | 0.4806             | 0.0700           | 0.7200             |
| 0.1100         | 0.5671             | 0.1200           | 0.8207             |
| 0.1700         | 0.6373             | 0.1800           | 0.8956             |
| 0.2200         | 0.6786             | 0.2100           | 0.9402             |
| 0.2700         | 0.7269             | 0.2700           | 0.9821             |
| 0.3200         | 0.7642             | 0.3100           | 0.9992             |
| 0.3600         | 0.8076             | 0.3700           | 1.0010             |
| 0.4100         | 0.8457             | 0.4200           | 1.0034             |
| 0.5100         | 0.9174             | 0.5300           | 1.0036             |
| 0.7200         | 1.0081             | 0.7300           | 1.0035             |
| 0.9100         | 1.0100             | 0.9400           | 1.0054             |
| 1.1100         | 1.0128             | 1.1500           | 0.9980             |
| 1.3000         | 1.0143             | 1.3500           | 0.9898             |
| 1.5300         | 0.8889             | 1.5500           | 1.0038             |
| 1.7400         | 1.0141             | 1.7500           | 1.0019             |
| 1.9400         | 1.0135             | 1.9500           | 1.0061             |
| 2.1400         | 1.0132             | 2.1600           | 1.0005             |
| 2.3500         | 1.0126             | 2.3700           | 0.9989             |
| 2.5500         | 1.0126             | 2.5800           | 1.0026             |

Flight 19 Test point 31

Sweep, deg = 25.3 Mach = 0.74 hp, ft = 35000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 192.5 Rnpu = 1786000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6986                     | 0.1964                      | 0.0934                  | 0.1 x/c          |
| Outboard station rake | 0.3142                     | 0.0773                      | 0.0331                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.4085 | 0.0400           | 0.5956 |
| 0.0500         | 0.4693 | 0.0700           | 0.6882 |
| 0.1100         | 0.5650 | 0.1200           | 0.7983 |
| 0.1700         | 0.6371 | 0.1800           | 0.8805 |
| 0.2200         | 0.6776 | 0.2100           | 0.9260 |
| 0.2700         | 0.7261 | 0.2700           | 0.9715 |
| 0.3200         | 0.7605 | 0.3100           | 0.9977 |
| 0.3600         | 0.8047 | 0.3700           | 1.0017 |
| 0.4100         | 0.8417 | 0.4200           | 1.0044 |
| 0.5100         | 0.9137 | 0.5300           | 1.0015 |
| 0.7200         | 1.0087 | 0.7300           | 1.0035 |
| 0.9100         | 1.0128 | 0.9400           | 1.0072 |
| 1.1100         | 1.0121 | 1.1500           | 0.9986 |
| 1.3000         | 1.0141 | 1.3500           | 0.9926 |
| 1.5300         | 0.8882 | 1.5500           | 1.0054 |
| 1.7400         | 1.0132 | 1.7500           | 1.0033 |
| 1.9400         | 1.0146 | 1.9500           | 1.0053 |
| 2.1400         | 1.0155 | 2.1600           | 1.0007 |
| 2.3500         | 1.0143 | 2.3700           | 1.0022 |
| 2.5500         | 1.0153 | 2.5800           | 1.0045 |

Flight 19 Test point 32

Sweep, deg = 26.4 Mach = 0.61 hp, ft = 26600. Angle of attack, deg = 4.2  
 Angle of sideslip, deg = -3.3 QBAR, lb/ft<sup>2</sup> = 167.7 Rrho = 1558000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 1.0378                     | 0.3292                      | 0.1452                  | 0.1 x/c          |
| Outboard station rake | 0.6005                     | 0.2070                      | 0.0765                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2957             | 0.0400           | 0.1646             |
| 0.0500         | 0.3039             | 0.0700           | 0.2322             |
| 0.1100         | 0.3628             | 0.1200           | 0.4025             |
| 0.1700         | 0.4181             | 0.1900           | 0.5057             |
| 0.2200         | 0.4584             | 0.2100           | 0.5869             |
| 0.2700         | 0.5030             | 0.2700           | 0.7027             |
| 0.3200         | 0.5484             | 0.3100           | 0.7926             |
| 0.3600         | 0.6029             | 0.3700           | 0.8663             |
| 0.4100         | 0.6444             | 0.4200           | 0.9219             |
| 0.5100         | 0.7442             | 0.5300           | 0.9720             |
| 0.7200         | 0.9239             | 0.7300           | 1.0044             |
| 0.9100         | 0.9719             | 0.9400           | 1.0088             |
| 1.1100         | 1.0015             | 1.1500           | 1.0021             |
| 1.3000         | 1.0169             | 1.3500           | 0.9955             |
| 1.5300         | 0.8756             | 1.5500           | 1.0069             |
| 1.7400         | 1.0221             | 1.7500           | 1.0039             |
| 1.9400         | 1.0233             | 1.9500           | 1.0057             |
| 2.1400         | 1.0237             | 2.1600           | 1.0004             |
| 2.3500         | 1.0195             | 2.3700           | 0.9986             |
| 2.5500         | 1.0175             | 2.5800           | 1.0017             |

Flight 19 Test point 33

Sweep, deg = 30.1 Mach = 0.75 hp, ft = 35200. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 193.0 Rnpu = 1785000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6980                     | 0.1740                      | 0.0878                  | 0.1 x/c          |
| Outboard station rake | 0.3344                     | 0.0932                      | 0.0416                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5222             | 0.0400           | 0.5827             |
| 0.0500         | 0.5586             | 0.0700           | 0.6414             |
| 0.1100         | 0.6070             | 0.1200           | 0.7363             |
| 0.1700         | 0.6783             | 0.1800           | 0.8109             |
| 0.2200         | 0.7072             | 0.2100           | 0.8709             |
| 0.2700         | 0.7526             | 0.2700           | 0.9299             |
| 0.3200         | 0.7926             | 0.3100           | 0.9746             |
| 0.3600         | 0.8355             | 0.3700           | 0.9923             |
| 0.4100         | 0.8605             | 0.4200           | 1.0004             |
| 0.5100         | 0.9295             | 0.5300           | 1.0007             |
| 0.7200         | 1.0073             | 0.7300           | 1.0025             |
| 0.9100         | 1.0053             | 0.9400           | 1.0046             |
| 1.1100         | 1.0098             | 1.1500           | 0.9958             |
| 1.3000         | 1.0109             | 1.3500           | 0.9916             |
| 1.5300         | 0.9153             | 1.5500           | 1.0029             |
| 1.7400         | 1.0110             | 1.7500           | 1.0026             |
| 1.9400         | 1.0100             | 1.9500           | 1.0049             |
| 2.1400         | 1.0131             | 2.1600           | 0.9998             |
| 2.3500         | 1.0064             | 2.3700           | 0.9991             |
| 2.5500         | 1.0110             | 2.5800           | 1.0027             |

Flight 19 Test point 34

Sweep, deg = 30.1 Mach = 0.75 hp, ft = 34700. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 198.2 Rrho = 1825000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7053                     | 0.1805                      | 0.0904                  | 0.1 x/c          |
| Outboard station rake | 0.3005                     | 0.0740                      | 0.0321                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5139             | 0.0400           | 0.6477             |
| 0.0500         | 0.5492             | 0.0700           | 0.7018             |
| 0.1100         | 0.6051             | 0.1200           | 0.8006             |
| 0.1700         | 0.6571             | 0.1800           | 0.8770             |
| 0.2200         | 0.6969             | 0.2100           | 0.9290             |
| 0.2700         | 0.7502             | 0.2700           | 0.9782             |
| 0.3200         | 0.7791             | 0.3100           | 0.9980             |
| 0.3600         | 0.8253             | 0.3700           | 1.0006             |
| 0.4100         | 0.8554             | 0.4200           | 1.0032             |
| 0.5100         | 0.9209             | 0.5300           | 1.0028             |
| 0.7200         | 1.0053             | 0.7300           | 1.0044             |
| 0.9100         | 1.0088             | 0.9400           | 1.0075             |
| 1.1100         | 1.0130             | 1.1500           | 0.9978             |
| 1.3000         | 1.0102             | 1.3500           | 0.9916             |
| 1.5300         | 0.9133             | 1.5500           | 1.0020             |
| 1.7400         | 1.0098             | 1.7500           | 1.0026             |
| 1.9400         | 1.0110             | 1.9500           | 1.0068             |
| 2.1400         | 1.0118             | 2.1600           | 1.0012             |
| 2.3500         | 1.0083             | 2.3700           | 1.0012             |
| 2.5500         | 1.0085             | 2.5800           | 1.0022             |

Flight 19 Test point 35

Sweep, deg = 35.2 Mach = 0.75 hp, ft = 34900. Angle of attack, deg = 3.3  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 196.2 Rnpu = 1807000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.8830                     | 0.2262                      | 0.1146                  | 0.1 x/c          |
| Outboard station rake | 0.7384                     | 0.1930                      | 0.0944                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5052             | 0.0400           | 0.5188             |
| 0.0500         | 0.5296             | 0.0700           | 0.5480             |
| 0.1100         | 0.5823             | 0.1200           | 0.6104             |
| 0.1700         | 0.6300             | 0.1800           | 0.6572             |
| 0.2200         | 0.6652             | 0.2100           | 0.6800             |
| 0.2700         | 0.6954             | 0.2700           | 0.7277             |
| 0.3200         | 0.7252             | 0.3100           | 0.7723             |
| 0.3600         | 0.7647             | 0.3700           | 0.8088             |
| 0.4100         | 0.7881             | 0.4200           | 0.8486             |
| 0.5100         | 0.8453             | 0.5300           | 0.9157             |
| 0.7200         | 0.9551             | 0.7300           | 0.9970             |
| 0.9100         | 1.0068             | 0.9400           | 1.0028             |
| 1.1100         | 1.0089             | 1.1500           | 0.9962             |
| 1.3000         | 1.0084             | 1.3500           | 0.9931             |
| 1.5300         | 0.9283             | 1.5500           | 1.0009             |
| 1.7400         | 1.0108             | 1.7500           | 1.0004             |
| 1.9400         | 1.0108             | 1.9500           | 1.0039             |
| 2.1400         | 1.0081             | 2.1600           | 1.0006             |
| 2.3500         | 1.0075             | 2.3700           | 1.0016             |
| 2.5500         | 1.0105             | 2.5800           | 1.0035             |



Flight 19 Test point 36

Sweep, deg = 35.2 Mach = 0.77 hp, ft = 34100. Angle of attack, deg = -0.4  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 212.5 Rrho = 1912000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7110                     | 0.1718                      | 0.0886                  | 0.1 x/c          |
| Outboard station rake | 0.5691                     | 0.1430                      | 0.0695                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5481 | 0.0400           | 0.5656 |
| 0.0500         | 0.5673 | 0.0700           | 0.5907 |
| 0.1100         | 0.6306 | 0.1200           | 0.6605 |
| 0.1700         | 0.6816 | 0.1800           | 0.7118 |
| 0.2200         | 0.7217 | 0.2100           | 0.7477 |
| 0.2700         | 0.7594 | 0.2700           | 0.8061 |
| 0.3200         | 0.7931 | 0.3100           | 0.8527 |
| 0.3600         | 0.8353 | 0.3700           | 0.8897 |
| 0.4100         | 0.8619 | 0.4200           | 0.9311 |
| 0.5100         | 0.9208 | 0.5300           | 0.9834 |
| 0.7200         | 1.0031 | 0.7300           | 1.0022 |
| 0.9100         | 1.0058 | 0.9400           | 1.0048 |
| 1.1100         | 1.0108 | 1.1500           | 0.9988 |
| 1.3000         | 1.0098 | 1.3500           | 0.9948 |
| 1.5300         | 0.9288 | 1.5500           | 1.0024 |
| 1.7400         | 1.0112 | 1.7500           | 1.0030 |
| 1.9400         | 1.0687 | 1.9500           | 1.0038 |
| 2.1400         | 1.0098 | 2.1600           | 1.0017 |
| 2.3500         | 1.0061 | 2.3700           | 1.0025 |
| 2.5500         | 1.0059 | 2.5800           | 1.0024 |

Flight 19 Test point 37

Sweep, deg = 35.2 Mach = 0.75 hp, ft = 34800. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 198.9 Rnpu = 1825000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7194                     | 0.1759                      | 0.0908                  | 0.1 x/c          |
| Outboard station rake | 0.5622                     | 0.1436                      | 0.0701                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5460             | 0.0400           | 0.5698             |
| 0.0500         | 0.5685             | 0.0700           | 0.5952             |
| 0.1100         | 0.6221             | 0.1200           | 0.6645             |
| 0.1700         | 0.6783             | 0.1800           | 0.7166             |
| 0.2200         | 0.7158             | 0.2100           | 0.7575             |
| 0.2700         | 0.7577             | 0.2700           | 0.8033             |
| 0.3200         | 0.7908             | 0.3100           | 0.8486             |
| 0.3600         | 0.8285             | 0.3700           | 0.8834             |
| 0.4100         | 0.8517             | 0.4200           | 0.9231             |
| 0.5100         | 0.9141             | 0.5300           | 0.9839             |
| 0.7200         | 1.0002             | 0.7300           | 1.0033             |
| 0.9100         | 1.0065             | 0.9400           | 1.0041             |
| 1.1100         | 1.0087             | 1.1500           | 0.9965             |
| 1.3000         | 1.0094             | 1.3500           | 0.9936             |
| 1.5300         | 0.9289             | 1.5500           | 1.0033             |
| 1.7400         | 1.0108             | 1.7500           | 1.0019             |
| 1.9400         | 1.0091             | 1.9500           | 1.0071             |
| 2.1400         | 1.0092             | 2.1600           | 1.0005             |
| 2.3500         | 1.0095             | 2.3700           | 1.0011             |
| 2.5500         | 1.0077             | 2.5800           | 1.0046             |

Flight 19 Test point 38

Sweep, deg = 35.2 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 2.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 224.6 Rrho = 1952000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.8860                     | 0.2624                      | 0.1224                  | 0.1 x/c          |
| Outboard station rake | 0.7684                     | 0.2208                      | 0.1018                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4626             | 0.0400           | 0.4720             |
| 0.0500         | 0.4719             | 0.0700           | 0.5031             |
| 0.1100         | 0.5184             | 0.1200           | 0.5563             |
| 0.1700         | 0.5667             | 0.1800           | 0.6044             |
| 0.2200         | 0.5919             | 0.2100           | 0.6286             |
| 0.2700         | 0.6357             | 0.2700           | 0.6771             |
| 0.3200         | 0.6683             | 0.3100           | 0.7263             |
| 0.3600         | 0.7047             | 0.3700           | 0.7683             |
| 0.4100         | 0.7367             | 0.4200           | 0.8143             |
| 0.5100         | 0.8131             | 0.5300           | 0.8959             |
| 0.7200         | 0.9549             | 0.7300           | 0.9988             |
| 0.9100         | 1.0060             | 0.9400           | 1.0045             |
| 1.1100         | 1.0103             | 1.1500           | 0.9977             |
| 1.3000         | 1.0081             | 1.3500           | 0.9949             |
| 1.5300         | 0.9323             | 1.5500           | 1.0026             |
| 1.7400         | 1.0075             | 1.7500           | 1.0005             |
| 1.9400         | 1.0106             | 1.9500           | 1.0030             |
| 2.1400         | 1.0103             | 2.1600           | 0.9978             |
| 2.3500         | 1.0069             | 2.3700           | 0.9991             |
| 2.5500         | 1.0080             | 2.5800           | 1.0000             |

Flight 19 Test point 39

Sweep, deg = 35.2 Mach = 0.80 hp, ft = 34700. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 223.9 Rnpu = 1956000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.8014                     | 0.1960                      | 0.0973                  | 0.1 x/c          |
| Outboard station rake | 0.7204                     | 0.1687                      | 0.0809                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5135 | 0.0400           | 0.5236 |
| 0.0500         | 0.5418 | 0.0700           | 0.5537 |
| 0.1100         | 0.5903 | 0.1200           | 0.6215 |
| 0.1700         | 0.6457 | 0.1800           | 0.6749 |
| 0.2200         | 0.6874 | 0.2100           | 0.7120 |
| 0.2700         | 0.7261 | 0.2700           | 0.7690 |
| 0.3200         | 0.7600 | 0.3100           | 0.8156 |
| 0.3600         | 0.7994 | 0.3700           | 0.8543 |
| 0.4100         | 0.8324 | 0.4200           | 0.8962 |
| 0.5100         | 0.8973 | 0.5300           | 0.9610 |
| 0.7200         | 0.9942 | 0.7300           | 1.0017 |
| 0.9100         | 1.0069 | 0.9400           | 1.0027 |
| 1.1100         | 1.0098 | 1.1500           | 0.9955 |
| 1.3000         | 1.0067 | 1.3500           | 0.9928 |
| 1.5300         | 0.9325 | 1.5500           | 1.0023 |
| 1.7400         | 1.0100 | 1.7500           | 1.0011 |
| 1.9400         | 1.0095 | 1.9500           | 1.0036 |
| 2.1400         | 1.0085 | 2.1600           | 0.9994 |
| 2.3500         | 1.0069 | 2.3700           | 1.0001 |
| 2.5500         | 1.0090 | 2.5800           | 1.0007 |

Flight 19 Test point 40

Sweep, deg = 35.2 Mach = 0.80 hp, ft = 35100. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 224.0 Rrho = 1946000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.8203                     | 0.2096                      | 0.1019                  | 0.1 x/c          |
| Outboard station rake | 0.7244                     | 0.1761                      | 0.0834                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5004             | 0.0400           | 0.5133             |
| 0.0500         | 0.5196             | 0.0700           | 0.5408             |
| 0.1100         | 0.5739             | 0.1200           | 0.6108             |
| 0.1700         | 0.6246             | 0.1800           | 0.6575             |
| 0.2200         | 0.6635             | 0.2100           | 0.6936             |
| 0.2700         | 0.7086             | 0.2700           | 0.7560             |
| 0.3200         | 0.7366             | 0.3100           | 0.8020             |
| 0.3600         | 0.7805             | 0.3700           | 0.8445             |
| 0.4100         | 0.8149             | 0.4200           | 0.8876             |
| 0.5100         | 0.8806             | 0.5300           | 0.9574             |
| 0.7200         | 0.9924             | 0.7300           | 1.0011             |
| 0.9100         | 1.0061             | 0.9400           | 1.0035             |
| 1.1100         | 1.0103             | 1.1500           | 0.9970             |
| 1.3000         | 1.0086             | 1.3500           | 0.9929             |
| 1.5300         | 0.9317             | 1.5500           | 1.0026             |
| 1.7400         | 1.0084             | 1.7500           | 1.0013             |
| 1.9400         | 1.0072             | 1.9500           | 1.0023             |
| 2.1400         | 1.0090             | 2.1600           | 0.9972             |
| 2.3500         | 1.0089             | 2.3700           | 0.9998             |
| 2.5500         | 1.0098             | 2.5800           | 1.0023             |

Flight 19 Test point 41

Sweep, deg = 30.0 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 224.5 Rrho = 1953000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.8056                     | 0.2953                      | 0.1165                  | 0.1 x/c          |
| Outboard station rake | 0.4414                     | 0.1995                      | 0.0644                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3460             | 0.0400           | 0.2229             |
| 0.0500         | 0.3473             | 0.0700           | 0.2705             |
| 0.1100         | 0.3963             | 0.1200           | 0.3891             |
| 0.1700         | 0.4490             | 0.1800           | 0.4885             |
| 0.2200         | 0.4856             | 0.2100           | 0.5903             |
| 0.2700         | 0.5395             | 0.2700           | 0.7245             |
| 0.3200         | 0.5824             | 0.3100           | 0.8184             |
| 0.3600         | 0.6419             | 0.3700           | 0.9058             |
| 0.4100         | 0.6949             | 0.4200           | 0.9726             |
| 0.5100         | 0.8091             | 0.5300           | 1.0054             |
| 0.7200         | 0.9915             | 0.7300           | 1.0060             |
| 0.9100         | 1.0093             | 0.9400           | 1.0084             |
| 1.1100         | 1.0120             | 1.1500           | 1.0016             |
| 1.3000         | 1.0096             | 1.3500           | 0.9938             |
| 1.5300         | 0.9194             | 1.5500           | 1.0019             |
| 1.7400         | 1.0099             | 1.7500           | 0.9978             |
| 1.9400         | 1.0088             | 1.9500           | 0.9984             |
| 2.1400         | 1.0096             | 2.1600           | 0.9944             |
| 2.3500         | 1.0109             | 2.3700           | 0.9958             |
| 2.5500         | 1.0104             | 2.5800           | 0.9964             |

Flight 19 Test point 42

Sweep, deg = 30.0 Mach = 0.80 hp, ft = 35100. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 222.9 Rrho = 1943000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7975                     | 0.2393                      | 0.1089                  | 0.1 x/c          |
| Outboard station rake | 0.5327                     | 0.1646                      | 0.0723                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4562             | 0.0400           | 0.4432             |
| 0.0500         | 0.4837             | 0.0700           | 0.5046             |
| 0.1100         | 0.5344             | 0.1200           | 0.5854             |
| 0.1700         | 0.5916             | 0.1800           | 0.6477             |
| 0.2200         | 0.6271             | 0.2100           | 0.6949             |
| 0.2700         | 0.6771             | 0.2700           | 0.7629             |
| 0.3200         | 0.7210             | 0.3100           | 0.8232             |
| 0.3600         | 0.7639             | 0.3700           | 0.8804             |
| 0.4100         | 0.8015             | 0.4200           | 0.9376             |
| 0.5100         | 0.8858             | 0.5300           | 0.9986             |
| 0.7200         | 1.0041             | 0.7300           | 1.0054             |
| 0.9100         | 1.0084             | 0.9400           | 1.0079             |
| 1.1100         | 1.0108             | 1.1500           | 0.9992             |
| 1.3000         | 1.0114             | 1.3500           | 0.9952             |
| 1.5300         | 0.9183             | 1.5500           | 1.0008             |
| 1.7400         | 1.0107             | 1.7500           | 0.9981             |
| 1.9400         | 1.0114             | 1.9500           | 1.0020             |
| 2.1400         | 1.0094             | 2.1600           | 0.9984             |
| 2.3500         | 1.0102             | 2.3700           | 0.9964             |
| 2.5500         | 1.0094             | 2.5800           | 0.9979             |

Flight 19 Test point 43

Sweep, deg = 30.0 Mach = 0.79 hp, ft = 35000. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 218.9 Rnpu = 1924000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.8294                     | 0.2417                      | 0.1112                  | 0.1 x/c          |
| Outboard station rake | 0.4483                     | 0.1417                      | 0.0620                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0200         | 0.4530             | 0.0400           | 0.4682             |
| 0.0500         | 0.4869             | 0.0700           | 0.5303             |
| 0.1100         | 0.5488             | 0.1200           | 0.6187             |
| 0.1700         | 0.6015             | 0.1800           | 0.6850             |
| 0.2200         | 0.6392             | 0.2100           | 0.7411             |
| 0.2700         | 0.6791             | 0.2700           | 0.8143             |
| 0.3200         | 0.7190             | 0.3100           | 0.8778             |
| 0.3600         | 0.7659             | 0.3700           | 0.9327             |
| 0.4100         | 0.8009             | 0.4200           | 0.9766             |
| 0.5100         | 0.8853             | 0.5300           | 1.0023             |
| 0.7200         | 1.0038             | 0.7300           | 1.0068             |
| 0.9100         | 1.0093             | 0.9400           | 1.0076             |
| 1.1100         | 1.0111             | 1.1500           | 0.9993             |
| 1.3000         | 1.0116             | 1.3500           | 0.9944             |
| 1.5300         | 0.9171             | 1.5500           | 1.0052             |
| 1.7400         | 1.0096             | 1.7500           | 1.0008             |
| 1.9400         | 1.0110             | 1.9500           | 1.0042             |
| 2.1400         | 1.0101             | 2.1600           | 0.9996             |
| 2.3500         | 1.0100             | 2.3700           | 1.0006             |
| 2.5500         | 1.0102             | 2.5800           | 1.0027             |



Flight 19 Test point 44

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 224.6 Rnpu = 1953000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7750                     | 0.3405                      | 0.0962                  | 0.1 x/c          |
| Outboard station rake | 0.4512                     | 0.1872                      | 0.0563                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1265             | 0.0400           | 0.4419             |
| 0.0500         | 0.0957             | 0.0700           | 0.3902             |
| 0.1100         | 0.1792             | 0.1200           | 0.2624             |
| 0.1700         | 0.3099             | 0.1800           | 0.5199             |
| 0.2200         | 0.3894             | 0.2100           | 0.6705             |
| 0.2700         | 0.4750             | 0.2700           | 0.8039             |
| 0.3200         | 0.5534             | 0.3100           | 0.8873             |
| 0.3600         | 0.6297             | 0.3700           | 0.9434             |
| 0.4100         | 0.6999             | 0.4200           | 0.9792             |
| 0.5100         | 0.8263             | 0.5300           | 1.0023             |
| 0.7200         | 0.9956             | 0.7300           | 1.0065             |
| 0.9100         | 1.0097             | 0.9400           | 1.0085             |
| 1.1100         | 1.0134             | 1.1500           | 1.0019             |
| 1.3000         | 1.0125             | 1.3500           | 1.0008             |
| 1.5300         | 0.9145             | 1.5500           | 1.0056             |
| 1.7400         | 1.0114             | 1.7500           | 1.0027             |
| 1.9400         | 1.0122             | 1.9500           | 1.0015             |
| 2.1400         | 1.0117             | 2.1600           | 0.9966             |
| 2.3500         | 1.0112             | 2.3700           | 0.9972             |
| 2.5500         | 1.0033             | 2.5800           | 0.9972             |

Flight 19 Test point 45

Sweep, deg = 25.1 Mach = 0.80 hp, ft = 34500. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 227.7 Rnpu = 1977000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6965                     | 0.2921                      | 0.1044                  | 0.1 x/c          |
| Outboard station rake | 0.5167                     | 0.2064                      | 0.0687                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2081             | 0.0400           | 0.5706             |
| 0.0500         | 0.2629             | 0.0700           | 0.5429             |
| 0.1100         | 0.3320             | 0.1200           | 0.3330             |
| 0.1700         | 0.4250             | 0.1800           | 0.2374             |
| 0.2200         | 0.4732             | 0.2100           | 0.4737             |
| 0.2700         | 0.5374             | 0.2700           | 0.6457             |
| 0.3200         | 0.5944             | 0.3100           | 0.7651             |
| 0.3600         | 0.6721             | 0.3700           | 0.8880             |
| 0.4100         | 0.7323             | 0.4200           | 0.9776             |
| 0.5100         | 0.8496             | 0.5300           | 1.0023             |
| 0.7200         | 1.0175             | 0.7300           | 1.0025             |
| 0.9100         | 1.0240             | 0.9400           | 1.0042             |
| 1.1100         | 1.0287             | 1.1500           | 0.9986             |
| 1.3000         | 1.0282             | 1.3500           | 0.9951             |
| 1.5300         | 0.7826             | 1.5500           | 1.0006             |
| 1.7400         | 1.0281             | 1.7500           | 0.9995             |
| 1.9400         | 1.0276             | 1.9500           | 1.0021             |
| 2.1400         | 1.0298             | 2.1600           | 0.9982             |
| 2.3500         | 1.0254             | 2.3700           | 0.9978             |
| 2.5500         | 1.0256             | 2.5800           | 0.9986             |

Flight 19 Test point 46

Sweep, deg = 25.2 Mach = 0.80 hp, ft = 35200. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 218.3 Rnpu = 1914000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7776                     | 0.3503                      | 0.1094                  | 0.1 x/c          |
| Outboard station rake | 0.4610                     | 0.1886                      | 0.0574                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.1926 | 0.0400           | 0.4144 |
| 0.0500         | 0.1960 | 0.0700           | 0.3646 |
| 0.1100         | 0.2513 | 0.1200           | 0.2758 |
| 0.1700         | 0.3114 | 0.1800           | 0.5220 |
| 0.2200         | 0.3716 | 0.2100           | 0.6626 |
| 0.2700         | 0.4372 | 0.2700           | 0.7990 |
| 0.3200         | 0.4965 | 0.3100           | 0.8831 |
| 0.3600         | 0.5711 | 0.3700           | 0.9414 |
| 0.4100         | 0.6449 | 0.4200           | 0.9747 |
| 0.5100         | 0.7762 | 0.5300           | 0.9998 |
| 0.7200         | 0.9892 | 0.7300           | 1.0072 |
| 0.9100         | 1.0225 | 0.9400           | 1.0070 |
| 1.1100         | 1.0245 | 1.1500           | 1.0013 |
| 1.3000         | 1.0255 | 1.3500           | 1.0009 |
| 1.5300         | 0.8038 | 1.5500           | 1.0060 |
| 1.7400         | 1.0241 | 1.7500           | 1.0032 |
| 1.9400         | 1.0260 | 1.9500           | 1.0046 |
| 2.1400         | 1.0250 | 2.1600           | 0.9994 |
| 2.3500         | 1.0237 | 2.3700           | 0.9977 |
| 2.5500         | 1.0250 | 2.5800           | 0.9982 |

Flight 19 Test point 47

Sweep, deg = 20.1 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -5.2 QBAR, lb/ft<sup>2</sup> = 221.5 Rrho = 1929000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 1.8789                     | 0.7271                      | 0.1768                  | 0.1 x/c          |
| Outboard station rake | 0.5547                     | 0.2322                      | 0.0720                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.1353 | 0.0400           | 0.5634 |
| 0.0500         | 0.1703 | 0.0700           | 0.5445 |
| 0.1100         | 0.1809 | 0.1200           | 0.2653 |
| 0.1700         | 0.1964 | 0.1800           | 0.2567 |
| 0.2200         | 0.2134 | 0.2100           | 0.4495 |
| 0.2700         | 0.2236 | 0.2700           | 0.6265 |
| 0.3200         | 0.2414 | 0.3100           | 0.7472 |
| 0.3600         | 0.1865 | 0.3700           | 0.8470 |
| 0.4100         | 0.1765 | 0.4200           | 0.9145 |
| 0.5100         | 0.1448 | 0.5300           | 0.9854 |
| 0.7200         | 0.5543 | 0.7300           | 1.0039 |
| 0.9100         | 0.8374 | 0.9400           | 1.0074 |
| 1.1100         | 0.9800 | 1.1500           | 0.9998 |
| 1.3000         | 0.9965 | 1.3500           | 0.9995 |
| 1.5300         | 0.8176 | 1.5500           | 1.0051 |
| 1.7400         | 1.0011 | 1.7500           | 1.0033 |
| 1.9400         | 0.9995 | 1.9500           | 1.0025 |
| 2.1400         | 1.0003 | 2.1600           | 0.9984 |
| 2.3500         | 0.9994 | 2.3700           | 0.9974 |
| 2.5500         | 1.0008 | 2.5800           | 0.9973 |

Flight 19 Test point 48

Sweep, deg = 20.1 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 221.8 R<sub>rho</sub> = 1932000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 3.4990                     | 0.6990                      | 0.1667                  | 0.1 x/c          |
| Outboard station rake | 0.5549                     | 0.2306                      | 0.0719                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1057             | 0.0400           | 0.5628             |
| 0.0500         | 0.1766             | 0.0700           | 0.5531             |
| 0.1100         | 0.1759             | 0.1200           | 0.2861             |
| 0.1700         | 0.1899             | 0.1800           | 0.2454             |
| 0.2200         | 0.2074             | 0.2100           | 0.4455             |
| 0.2700         | 0.1864             | 0.2700           | 0.6269             |
| 0.3200         | 0.2049             | 0.3100           | 0.7469             |
| 0.3600         | 0.1424             | 0.3700           | 0.8482             |
| 0.4100         | 0.0752             | 0.4200           | 0.9190             |
| 0.5100         | 0.2441             | 0.5300           | 0.9862             |
| 0.7200         | 0.6259             | 0.7300           | 1.0050             |
| 0.9100         | 0.8857             | 0.9400           | 1.0066             |
| 1.1100         | 0.9921             | 1.1500           | 0.9996             |
| 1.3000         | 0.9981             | 1.3500           | 0.9998             |
| 1.5300         | 0.8215             | 1.5500           | 1.0053             |
| 1.7400         | 0.9990             | 1.7500           | 1.0035             |
| 1.9400         | 0.9992             | 1.9500           | 1.0027             |
| 2.1400         | 0.9994             | 2.1600           | 0.9982             |
| 2.3500         | 0.9999             | 2.3700           | 0.9963             |
| 2.5500         | 1.0016             | 2.5800           | 0.9967             |

Flight 19 Test point 49

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 34800. Angle of attack, deg = -0.1  
 Angle of sideslip, deg = 0.1  $\bar{Q}$ BAR, lb/ft<sup>2</sup> = 224.2  $R_{\text{npu}}$  = 1953000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7042                     | 0.3107                      | 0.1000                  | 0.1 x/c          |
| Outboard station rake | 0.4575                     | 0.1923                      | 0.0596                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4192             | 0.0400           | 0.4430             |
| 0.0500         | 0.3958             | 0.0700           | 0.3894             |
| 0.1100         | 0.2532             | 0.1200           | 0.2528             |
| 0.1700         | 0.2194             | 0.1800           | 0.4851             |
| 0.2200         | 0.3627             | 0.2100           | 0.6259             |
| 0.2700         | 0.4821             | 0.2700           | 0.7683             |
| 0.3200         | 0.5750             | 0.3100           | 0.8679             |
| 0.3600         | 0.6524             | 0.3700           | 0.9380             |
| 0.4100         | 0.7271             | 0.4200           | 0.9745             |
| 0.5100         | 0.8554             | 0.5300           | 0.9984             |
| 0.7200         | 1.0108             | 0.7300           | 1.0038             |
| 0.9100         | 1.0197             | 0.9400           | 1.0076             |
| 1.1100         | 1.0204             | 1.1500           | 0.9990             |
| 1.3000         | 1.0179             | 1.3500           | 0.9979             |
| 1.5300         | 0.8439             | 1.5500           | 1.0040             |
| 1.7400         | 1.0193             | 1.7500           | 1.0037             |
| 1.9400         | 1.0199             | 1.9500           | 1.0049             |
| 2.1400         | 1.0204             | 2.1600           | 1.0021             |
| 2.3500         | 1.0187             | 2.3700           | 1.0010             |
| 2.5500         | 1.0198             | 2.5800           | 1.0030             |

Flight 20 Test point 1

Sweep, deg = 20.4 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 351.8 Rnpu = 2814000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7012                     | 0.2934                      | 0.0954                  | 0.1 x/c          |
| Outboard station rake | 0.3757                     | 0.1539                      | 0.0492                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | w/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5038 | 0.0400           | 0.5131 |
| 0.0500         | 0.4691 | 0.0700           | 0.4015 |
| 0.1100         | 0.3108 | 0.1200           | 0.3103 |
| 0.1700         | 0.2078 | 0.1800           | 0.5865 |
| 0.2200         | 0.3908 | 0.2100           | 0.7439 |
| 0.2700         | 0.5140 | 0.2700           | 0.8861 |
| 0.3200         | 0.6132 | 0.3100           | 0.9661 |
| 0.3600         | 0.6910 | 0.3700           | 0.9973 |
| 0.4100         | 0.7652 | 0.4200           | 1.0039 |
| 0.5100         | 0.8843 | 0.5300           | 1.0024 |
| 0.7200         | 1.0103 | 0.7300           | 1.0028 |
| 0.9100         | 1.0140 | 0.9400           | 1.0042 |
| 1.1100         | 1.0147 | 1.1500           | 0.9999 |
| 1.3000         | 1.0147 | 1.3500           | 0.9987 |
| 1.5300         | 0.9063 | 1.5500           | 1.0020 |
| 1.7400         | 1.0144 | 1.7500           | 1.0005 |
| 1.9400         | 1.0145 | 1.9500           | 0.9993 |
| 2.1400         | 1.0136 | 2.1600           | 0.9962 |
| 2.3500         | 1.0065 | 2.3700           | 0.9961 |
| 2.5500         | 1.0013 | 2.5800           | 0.9967 |

Flight 20 Test point 2

Sweep, deg = 20.4 Mach = 0.80 hp, ft = 24900. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 353.5 Rnpu = 2818000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7134                     | 0.3163                      | 0.1013                  | 0.1 x/c          |
| Outboard station rake | 0.5574                     | 0.2163                      | 0.0715                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5581             | 0.0400           | 0.5896             |
| 0.0500         | 0.5540             | 0.0700           | 0.5624             |
| 0.1100         | 0.4312             | 0.1200           | 0.3215             |
| 0.1700         | 0.3095             | 0.1800           | 0.2647             |
| 0.2200         | 0.1563             | 0.2100           | 0.4893             |
| 0.2700         | 0.3808             | 0.2700           | 0.6572             |
| 0.3200         | 0.5139             | 0.3100           | 0.7764             |
| 0.3600         | 0.6136             | 0.3700           | 0.8691             |
| 0.4100         | 0.7020             | 0.4200           | 0.9314             |
| 0.5100         | 0.8429             | 0.5300           | 0.9874             |
| 0.7200         | 1.0047             | 0.7300           | 1.0034             |
| 0.9100         | 1.0120             | 0.9400           | 1.0034             |
| 1.1100         | 1.0131             | 1.1500           | 0.9999             |
| 1.3000         | 1.0138             | 1.3500           | 1.0011             |
| 1.5300         | 0.9052             | 1.5500           | 1.0039             |
| 1.7400         | 1.0140             | 1.7500           | 1.0030             |
| 1.9400         | 1.0132             | 1.9500           | 1.0023             |
| 2.1400         | 1.0122             | 2.1600           | 0.9993             |
| 2.3500         | 1.0114             | 2.3700           | 0.9977             |
| 2.5500         | 1.0052             | 2.5800           | 0.9987             |



Flight 20 Test point 3

Sweep, deg = 20.4 Mach = 0.81 hp, ft = 25000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 356.0 Rrho = 2830000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.8614                     | 0.4591                      | 0.0953                  | 0.1 x/c          |
| Outboard station rake | 0.4651                     | 0.1912                      | 0.0635                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.0865 | 0.0400           | 0.6165 |
| 0.0500         | 0.0500 | 0.0700           | 0.5873 |
| 0.1100         | 0.0647 | 0.1200           | 0.3258 |
| 0.1700         | 0.0972 | 0.1800           | 0.3434 |
| 0.2200         | 0.1175 | 0.2100           | 0.5597 |
| 0.2700         | 0.2165 | 0.2700           | 0.7308 |
| 0.3200         | 0.3039 | 0.3100           | 0.8416 |
| 0.3600         | 0.3894 | 0.3700           | 0.9197 |
| 0.4100         | 0.4767 | 0.4200           | 0.9634 |
| 0.5100         | 0.6476 | 0.5300           | 0.9994 |
| 0.7200         | 0.9425 | 0.7300           | 1.0083 |
| 0.9100         | 1.0183 | 0.9400           | 1.0093 |
| 1.1100         | 1.0195 | 1.1500           | 1.0062 |
| 1.3000         | 1.0191 | 1.3500           | 1.0057 |
| 1.5300         | 0.8474 | 1.5500           | 1.0080 |
| 1.7400         | 1.0199 | 1.7500           | 1.0033 |
| 1.9400         | 1.0193 | 1.9500           | 1.0004 |
| 2.1400         | 1.0189 | 2.1600           | 1.0000 |
| 2.3500         | 1.0195 | 2.3700           | 0.9986 |
| 2.5500         | 1.0181 | 2.5800           | 0.9974 |

Flight 20 Test point 4

Sweep, deg = 20.4 Mach = 0.81 hp, ft = 25000. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 356.1 Rrho = 2833000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 2.0421                     | 1.1081                      | 0.2760                  | 0.1 x/c          |
| Outboard station rake | 0.5418                     | 0.2209                      | 0.0615                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.1530 | 0.0400           | 0.4440 |
| 0.0500         | 0.1619 | 0.0700           | 0.4137 |
| 0.1100         | 0.1776 | 0.1200           | 0.1324 |
| 0.1700         | 0.1724 | 0.1800           | 0.4137 |
| 0.2200         | 0.2039 | 0.2100           | 0.5624 |
| 0.2700         | 0.2032 | 0.2700           | 0.7102 |
| 0.3200         | 0.2308 | 0.3100           | 0.8159 |
| 0.3600         | 0.2307 | 0.3700           | 0.8998 |
| 0.4100         | 0.2449 | 0.4200           | 0.9522 |
| 0.5100         | 0.2661 | 0.5300           | 0.9958 |
| 0.7200         | 0.1925 | 0.7300           | 1.0053 |
| 0.9100         | 0.2599 | 0.9400           | 1.0055 |
| 1.1100         | 0.5295 | 1.1500           | 1.0028 |
| 1.3000         | 0.7377 | 1.3500           | 1.0026 |
| 1.5300         | 0.6568 | 1.5500           | 1.0041 |
| 1.7400         | 0.9573 | 1.7500           | 1.0026 |
| 1.9400         | 0.9861 | 1.9500           | 0.9999 |
| 2.1400         | 1.0003 | 2.1600           | 0.9946 |
| 2.3500         | 1.0052 | 2.3700           | 0.9926 |
| 2.5500         | 1.0084 | 2.5800           | 0.9942 |

Flight 20 Test point 5

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 353.5 Rrho = 2820000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6875                     | 0.2783                      | 0.0905                  | 0.1 x/c          |
| Outboard station rake | 0.7159                     | 0.2279                      | 0.0761                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2634             | 0.0400           | 0.3766             |
| 0.0500         | 0.1880             | 0.0700           | 0.2534             |
| 0.1100         | 0.2528             | 0.1200           | 0.3239             |
| 0.1700         | 0.4164             | 0.1800           | 0.4884             |
| 0.2200         | 0.4999             | 0.2100           | 0.5820             |
| 0.2700         | 0.5906             | 0.2700           | 0.6850             |
| 0.3200         | 0.6682             | 0.3100           | 0.7640             |
| 0.3600         | 0.7339             | 0.3700           | 0.8394             |
| 0.4100         | 0.7960             | 0.4200           | 0.8988             |
| 0.5100         | 0.9010             | 0.5300           | 0.9807             |
| 0.7200         | 1.0163             | 0.7300           | 1.0013             |
| 0.9100         | 1.0181             | 0.9400           | 1.0025             |
| 1.1100         | 1.0195             | 1.1500           | 0.9998             |
| 1.3000         | 1.0191             | 1.3500           | 0.9986             |
| 1.5300         | 0.8498             | 1.5500           | 1.0011             |
| 1.7400         | 1.0193             | 1.7500           | 1.0016             |
| 1.9400         | 1.0193             | 1.9500           | 1.0015             |
| 2.1400         | 1.0179             | 2.1600           | 1.0003             |
| 2.3500         | 1.0194             | 2.3700           | 0.9963             |
| 2.5500         | 1.0176             | 2.5800           | 0.9971             |

Flight 20 Test point 6

Sweep, deg = 25.3 Mach = 0.81 hp, ft = 24900. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 358.4 Rrho = 2849000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6825                     | 0.2661                      | 0.0874                  | 0.1 x/c          |
| Outboard station rake | 0.7136                     | 0.2437                      | 0.0794                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3558             | 0.0400           | 0.3805             |
| 0.0500         | 0.2650             | 0.0700           | 0.2915             |
| 0.1100         | 0.2437             | 0.1200           | 0.2584             |
| 0.1700         | 0.4421             | 0.1800           | 0.4395             |
| 0.2200         | 0.5405             | 0.2100           | 0.5433             |
| 0.2700         | 0.6242             | 0.2700           | 0.6538             |
| 0.3200         | 0.6976             | 0.3100           | 0.7378             |
| 0.3600         | 0.7614             | 0.3700           | 0.8146             |
| 0.4100         | 0.8194             | 0.4200           | 0.8773             |
| 0.5100         | 0.9149             | 0.5300           | 0.9690             |
| 0.7200         | 1.0165             | 0.7300           | 1.0024             |
| 0.9100         | 1.0178             | 0.9400           | 1.0028             |
| 1.1100         | 1.0188             | 1.1500           | 1.0002             |
| 1.3000         | 1.0183             | 1.3500           | 0.9994             |
| 1.5300         | 0.8781             | 1.5500           | 1.0026             |
| 1.7400         | 1.0177             | 1.7500           | 1.0021             |
| 1.9400         | 1.0183             | 1.9500           | 1.0024             |
| 2.1400         | 1.0167             | 2.1600           | 1.0008             |
| 2.3500         | 1.0097             | 2.3700           | 0.9948             |
| 2.5500         | 1.0046             | 2.5800           | 0.9925             |

Flight 20 Test point 7

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 353.2 Rrho = 2820000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7142                     | 0.3455                      | 0.0962                  | 0.1 x/c          |
| Outboard station rake | 0.6737                     | 0.2731                      | 0.0730                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1181             | 0.0400           | 0.2444             |
| 0.0500         | 0.1229             | 0.0700           | 0.2233             |
| 0.1100         | 0.2114             | 0.1200           | 0.1479             |
| 0.1700         | 0.2791             | 0.1800           | 0.3085             |
| 0.2200         | 0.3483             | 0.2100           | 0.4153             |
| 0.2700         | 0.4393             | 0.2700           | 0.5482             |
| 0.3200         | 0.5188             | 0.3100           | 0.6637             |
| 0.3600         | 0.6062             | 0.3700           | 0.7750             |
| 0.4100         | 0.6890             | 0.4200           | 0.8681             |
| 0.5100         | 0.8232             | 0.5300           | 0.9863             |
| 0.7200         | 1.0047             | 0.7300           | 1.0046             |
| 0.9100         | 1.0205             | 0.9400           | 1.0058             |
| 1.1100         | 1.0213             | 1.1500           | 1.0022             |
| 1.3000         | 1.0206             | 1.3500           | 1.0019             |
| 1.5300         | 0.8686             | 1.5500           | 1.0039             |
| 1.7400         | 1.0196             | 1.7500           | 1.0034             |
| 1.9400         | 1.0194             | 1.9500           | 1.0036             |
| 2.1400         | 1.0185             | 2.1600           | 0.9927             |
| 2.3500         | 1.0100             | 2.3700           | 0.9925             |
| 2.5500         | 1.0015             | 2.5800           | 0.9894             |

Flight 20 Test point 8

Sweep, deg = 30.3 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 354.3 Rrho = 2825000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7000                     | 0.2545                      | 0.1057                  | 0.1 x/c          |
| Outboard station rake | 0.7238                     | 0.2590                      | 0.0949                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3737             | 0.0400           | 0.2327             |
| 0.0500         | 0.3970             | 0.0700           | 0.2951             |
| 0.1100         | 0.4438             | 0.1200           | 0.3849             |
| 0.1700         | 0.5037             | 0.1800           | 0.4516             |
| 0.2200         | 0.5500             | 0.2100           | 0.5058             |
| 0.2700         | 0.6009             | 0.2700           | 0.5862             |
| 0.3200         | 0.6538             | 0.3100           | 0.6600             |
| 0.3600         | 0.7120             | 0.3700           | 0.7398             |
| 0.4100         | 0.7677             | 0.4200           | 0.8110             |
| 0.5100         | 0.8723             | 0.5300           | 0.9366             |
| 0.7200         | 1.0123             | 0.7300           | 1.0018             |
| 0.9100         | 1.0281             | 0.9400           | 1.0033             |
| 1.1100         | 1.0292             | 1.1500           | 1.0010             |
| 1.3000         | 1.0294             | 1.3500           | 0.9988             |
| 1.5300         | 0.7768             | 1.5500           | 1.0020             |
| 1.7400         | 1.0281             | 1.7500           | 1.0014             |
| 1.9400         | 1.0272             | 1.9500           | 1.0011             |
| 2.1400         | 1.0267             | 2.1600           | 0.9972             |
| 2.3500         | 1.0276             | 2.3700           | 0.9969             |
| 2.5500         | 1.0268             | 2.5800           | 0.9966             |

Flight 20 Test point 9

Sweep, deg = 30.4 Mach = 0.81 hp, ft = 24900. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 358.4 Rrho = 2849000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7041                     | 0.2624                      | 0.1062                  | 0.1 x/c          |
| Outboard station rake | 0.7263                     | 0.2762                      | 0.0960                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.3507 | 0.0400           | 0.2073 |
| 0.0500         | 0.3698 | 0.0700           | 0.2565 |
| 0.1100         | 0.4236 | 0.1200           | 0.3448 |
| 0.1700         | 0.4896 | 0.1800           | 0.4115 |
| 0.2200         | 0.5297 | 0.2100           | 0.4660 |
| 0.2700         | 0.5920 | 0.2700           | 0.5540 |
| 0.3200         | 0.6438 | 0.3100           | 0.6283 |
| 0.3600         | 0.7057 | 0.3700           | 0.7129 |
| 0.4100         | 0.7626 | 0.4200           | 0.7928 |
| 0.5100         | 0.8664 | 0.5300           | 0.9242 |
| 0.7200         | 1.0100 | 0.7300           | 1.0013 |
| 0.9100         | 1.0271 | 0.9400           | 1.0032 |
| 1.1100         | 1.0286 | 1.1500           | 0.9996 |
| 1.3000         | 1.0280 | 1.3500           | 0.9981 |
| 1.5300         | 0.7794 | 1.5500           | 1.0018 |
| 1.7400         | 1.0275 | 1.7500           | 1.0015 |
| 1.9400         | 1.0282 | 1.9500           | 1.0023 |
| 2.1400         | 1.0270 | 2.1600           | 0.9989 |
| 2.3500         | 1.0276 | 2.3700           | 0.9974 |
| 2.5500         | 1.0266 | 2.5800           | 0.9959 |

Flight 20 Test point 10

Sweep, deg = 30.4 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 352.7 RnpU = 2820000.

|                       | Boundary layer height, In. | Displacement thickness, In. | Momentum thickness, In. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7125                     | 0.2837                      | 0.1112                  | 0.1 x/c          |
| Outboard station rake | 0.7276                     | 0.3033                      | 0.0983                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, In.         | U/U <sub>max</sub> | Y, In.           | U/U <sub>max</sub> |
| 0.0300         | 0.3305             | 0.0400           | 0.1989             |
| 0.0500         | 0.3491             | 0.0700           | 0.2125             |
| 0.1100         | 0.3976             | 0.1200           | 0.2999             |
| 0.1700         | 0.4517             | 0.1800           | 0.3634             |
| 0.2200         | 0.4977             | 0.2100           | 0.4179             |
| 0.2700         | 0.5618             | 0.2700           | 0.5097             |
| 0.3200         | 0.6082             | 0.3100           | 0.5896             |
| 0.3600         | 0.6675             | 0.3700           | 0.6723             |
| 0.4100         | 0.7230             | 0.4200           | 0.7538             |
| 0.5100         | 0.8323             | 0.5300           | 0.8938             |
| 0.7200         | 1.0058             | 0.7300           | 1.0012             |
| 0.9100         | 1.0275             | 0.9400           | 1.0031             |
| 1.1100         | 1.0285             | 1.1500           | 1.0003             |
| 1.3000         | 1.0288             | 1.3500           | 0.9978             |
| 1.5300         | 0.7742             | 1.5500           | 1.0024             |
| 1.7400         | 1.0280             | 1.7500           | 1.0023             |
| 1.9400         | 1.0285             | 1.9500           | 1.0026             |
| 2.1400         | 1.0282             | 2.1600           | 0.9998             |
| 2.3500         | 1.0281             | 2.3700           | 0.9965             |
| 2.5500         | 1.0282             | 2.5800           | 0.9951             |



Flight 20 Test point 11

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 271.1 Rrho = 2438000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6719                     | 0.2027                      | 0.0868                  | 0.1 x/c          |
| Outboard station rake | 0.3271                     | 0.1144                      | 0.0408                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2397             | 0.0400           | 0.2638             |
| 0.0500         | 0.2921             | 0.0700           | 0.4237             |
| 0.1100         | 0.5137             | 0.1200           | 0.6728             |
| 0.1700         | 0.6268             | 0.1800           | 0.8018             |
| 0.2200         | 0.6808             | 0.2100           | 0.8735             |
| 0.2700         | 0.7336             | 0.2700           | 0.9425             |
| 0.3200         | 0.7765             | 0.3100           | 0.9836             |
| 0.3600         | 0.8211             | 0.3700           | 0.9966             |
| 0.4100         | 0.8573             | 0.4200           | 1.0008             |
| 0.5100         | 0.9268             | 0.5300           | 0.9991             |
| 0.7200         | 1.0193             | 0.7300           | 1.0024             |
| 0.9100         | 1.0215             | 0.9400           | 1.0052             |
| 1.1100         | 1.0242             | 1.1500           | 0.9971             |
| 1.3000         | 1.0237             | 1.3500           | 0.9973             |
| 1.5300         | 0.7884             | 1.5500           | 1.0023             |
| 1.7400         | 1.0256             | 1.7500           | 1.0032             |
| 1.9400         | 1.0242             | 1.9500           | 1.0039             |
| 2.1400         | 1.0243             | 2.1600           | 1.0017             |
| 2.3500         | 1.0237             | 2.3700           | 1.0019             |
| 2.5500         | 1.0252             | 2.5800           | 1.0048             |

Flight 20 Test point 12

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 24900. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = -5.2 QBAR, lb/ft<sup>2</sup> = 268.8  $Rn_{\mu}$  = 2424000.

|                       | Boundary layer height, In. | Displacement thickness, In. | Momentum thickness, In. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6909                     | 0.2307                      | 0.0928                  | 0.1 x/c          |
| Outboard station rake | 0.4035                     | 0.1255                      | 0.0514                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, In.         | U/U <sub>max</sub> | Y, In.           | U/U <sub>max</sub> |
| 0.0300         | 0.6467             | 0.0400           | 0.7188             |
| 0.0500         | 0.4812             | 0.0700           | 0.4718             |
| 0.1100         | 0.1801             | 0.1200           | 0.4438             |
| 0.1700         | 0.4921             | 0.1800           | 0.6848             |
| 0.2200         | 0.6027             | 0.2100           | 0.7930             |
| 0.2700         | 0.6708             | 0.2700           | 0.8920             |
| 0.3200         | 0.7326             | 0.3100           | 0.9561             |
| 0.3600         | 0.7838             | 0.3700           | 0.9854             |
| 0.4100         | 0.8249             | 0.4200           | 0.9958             |
| 0.5100         | 0.9046             | 0.5300           | 0.9960             |
| 0.7200         | 1.0137             | 0.7300           | 1.0029             |
| 0.9100         | 1.0218             | 0.9400           | 1.0032             |
| 1.1100         | 1.0235             | 1.1500           | 0.9944             |
| 1.3000         | 1.0228             | 1.3500           | 0.9971             |
| 1.5300         | 0.8128             | 1.5500           | 1.0035             |
| 1.7400         | 1.0228             | 1.7500           | 1.0046             |
| 1.9400         | 1.0253             | 1.9500           | 1.0048             |
| 2.1400         | 1.0232             | 2.1600           | 1.0042             |
| 2.3500         | 1.0232             | 2.3700           | 1.0033             |
| 2.5500         | 1.0246             | 2.5800           | 1.0050             |

Flight 20 Test point 13

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 25300. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 264.3 Rrho = 2393000.

|                       | Boundary layer height, In. | Displacement thickness, In. | Momentum thickness, In. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6572                     | 0.1920                      | 0.0823                  | 0.1 x/c          |
| Outboard station rake | 0.3001                     | 0.0937                      | 0.0336                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, In.         | U/Umax | Y, In.           | U/Umax |
| 0.0300         | 0.1760 | 0.0400           | 0.2854 |
| 0.0500         | 0.3341 | 0.0700           | 0.5689 |
| 0.1100         | 0.5326 | 0.1200           | 0.7577 |
| 0.1700         | 0.6454 | 0.1800           | 0.8686 |
| 0.2200         | 0.6975 | 0.2100           | 0.9307 |
| 0.2700         | 0.7487 | 0.2700           | 0.9790 |
| 0.3200         | 0.7969 | 0.3100           | 0.9979 |
| 0.3600         | 0.8379 | 0.3700           | 0.9992 |
| 0.4100         | 0.8719 | 0.4200           | 1.0021 |
| 0.5100         | 0.9415 | 0.5300           | 1.0001 |
| 0.7200         | 1.0219 | 0.7300           | 1.0024 |
| 0.9100         | 1.0220 | 0.9400           | 1.0043 |
| 1.1100         | 1.0241 | 1.1500           | 0.9967 |
| 1.3000         | 1.0248 | 1.3500           | 0.9959 |
| 1.5300         | 0.7873 | 1.5500           | 1.0047 |
| 1.7400         | 1.0239 | 1.7500           | 1.0031 |
| 1.9400         | 1.0241 | 1.9500           | 1.0060 |
| 2.1400         | 1.0243 | 2.1600           | 1.0021 |
| 2.3500         | 1.0241 | 2.3700           | 1.0025 |
| 2.5500         | 1.0235 | 2.5800           | 1.0040 |

Flight 20 Test point 14

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 270.4 Rnpu = 2432000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6575                     | 0.1675                      | 0.0831                  | 0.1 x/c          |
| Outboard station rake | 0.3235                     | 0.0934                      | 0.0401                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4659             | 0.0400           | 0.5011             |
| 0.0500         | 0.5315             | 0.0700           | 0.6108             |
| 0.1100         | 0.6176             | 0.1200           | 0.7330             |
| 0.1700         | 0.6813             | 0.1800           | 0.8239             |
| 0.2200         | 0.7202             | 0.2100           | 0.8876             |
| 0.2700         | 0.7638             | 0.2700           | 0.9486             |
| 0.3200         | 0.8045             | 0.3100           | 0.9877             |
| 0.3600         | 0.8455             | 0.3700           | 0.9983             |
| 0.4100         | 0.8805             | 0.4200           | 1.0009             |
| 0.5100         | 0.9420             | 0.5300           | 1.0009             |
| 0.7200         | 1.0216             | 0.7300           | 1.0014             |
| 0.9100         | 1.0233             | 0.9400           | 1.0041             |
| 1.1100         | 1.0261             | 1.1500           | 0.9996             |
| 1.3000         | 1.0253             | 1.3500           | 0.9957             |
| 1.5300         | 0.7783             | 1.5500           | 1.0017             |
| 1.7400         | 1.0251             | 1.7500           | 1.0019             |
| 1.9400         | 1.0249             | 1.9500           | 1.0029             |
| 2.1400         | 1.0246             | 2.1600           | 1.0001             |
| 2.3500         | 1.0261             | 2.3700           | 1.0020             |
| 2.5500         | 1.0247             | 2.5800           | 1.0030             |

Flight 20 Test point 15

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 24900. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 270.0 Rrho = 2431000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6716                     | 0.2002                      | 0.0854                  | 0.1 x/c          |
| Outboard station rake | 0.3366                     | 0.1208                      | 0.0437                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1012             | 0.0400           | 0.2792             |
| 0.0500         | 0.3566             | 0.0700           | 0.3949             |
| 0.1100         | 0.5357             | 0.1200           | 0.6452             |
| 0.1700         | 0.6416             | 0.1800           | 0.7761             |
| 0.2200         | 0.6878             | 0.2100           | 0.8497             |
| 0.2700         | 0.7358             | 0.2700           | 0.9239             |
| 0.3200         | 0.7787             | 0.3100           | 0.9733             |
| 0.3600         | 0.8228             | 0.3700           | 0.9934             |
| 0.4100         | 0.8540             | 0.4200           | 0.9994             |
| 0.5100         | 0.9277             | 0.5300           | 0.9977             |
| 0.7200         | 1.0191             | 0.7300           | 1.0009             |
| 0.9100         | 1.0221             | 0.9400           | 1.0040             |
| 1.1100         | 1.0243             | 1.1500           | 0.9974             |
| 1.3000         | 1.0228             | 1.3500           | 0.9952             |
| 1.5300         | 0.7870             | 1.5500           | 1.0027             |
| 1.7400         | 1.0253             | 1.7500           | 1.0011             |
| 1.9400         | 1.0255             | 1.9500           | 1.0036             |
| 2.1400         | 1.0243             | 2.1600           | 1.0006             |
| 2.3500         | 1.0244             | 2.3700           | 1.0022             |
| 2.5500         | 1.0252             | 2.5800           | 1.0018             |

Flight 20 Test point 16

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 24900. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 272.1 Rrho = 2446000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6402                     | 0.1561                      | 0.0788                  | 0.1 x/c          |
| Outboard station rake | 0.2977                     | 0.0745                      | 0.0320                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5015             | 0.0400           | 0.5969             |
| 0.0500         | 0.5547             | 0.0700           | 0.6885             |
| 0.1100         | 0.6356             | 0.1200           | 0.7976             |
| 0.1700         | 0.6990             | 0.1800           | 0.8827             |
| 0.2200         | 0.7383             | 0.2100           | 0.9392             |
| 0.2700         | 0.7805             | 0.2700           | 0.9826             |
| 0.3200         | 0.8194             | 0.3100           | 1.0000             |
| 0.3600         | 0.8619             | 0.3700           | 0.9999             |
| 0.4100         | 0.8917             | 0.4200           | 1.0037             |
| 0.5100         | 0.9550             | 0.5300           | 0.9987             |
| 0.7200         | 1.0240             | 0.7300           | 1.0021             |
| 0.9100         | 1.0234             | 0.9400           | 1.0040             |
| 1.1100         | 1.0250             | 1.1500           | 0.9985             |
| 1.3000         | 1.0251             | 1.3500           | 0.9962             |
| 1.5300         | 0.7790             | 1.5500           | 1.0032             |
| 1.7400         | 1.0256             | 1.7500           | 1.0025             |
| 1.9400         | 1.0246             | 1.9500           | 1.0028             |
| 2.1400         | 1.0249             | 2.1600           | 1.0012             |
| 2.3500         | 1.0242             | 2.3700           | 1.0018             |
| 2.5500         | 1.0242             | 2.5800           | 1.0030             |

Flight 20 Test point 17

Sweep, deg = 25.3 Mach = 0.71 hp, ft = 24700. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 279.7 R<sub>rho</sub> = 2484000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6524                     | 0.1668                      | 0.0826                  | 0.1 x/c          |
| Outboard station rake | 0.3185                     | 0.0891                      | 0.0379                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| X, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4657             | 0.0400           | 0.5175             |
| 0.0500         | 0.5349             | 0.0700           | 0.6297             |
| 0.1100         | 0.6165             | 0.1200           | 0.7507             |
| 0.1700         | 0.6823             | 0.1800           | 0.8405             |
| 0.2200         | 0.7233             | 0.2100           | 0.9033             |
| 0.2700         | 0.7618             | 0.2700           | 0.9605             |
| 0.3200         | 0.8035             | 0.3100           | 0.9911             |
| 0.3600         | 0.8453             | 0.3700           | 0.9997             |
| 0.4100         | 0.8788             | 0.4200           | 1.0021             |
| 0.5100         | 0.9462             | 0.5300           | 1.0001             |
| 0.7200         | 1.0224             | 0.7300           | 1.0013             |
| 0.9100         | 1.0230             | 0.9400           | 1.0031             |
| 1.1100         | 1.0244             | 1.1500           | 0.9976             |
| 1.3000         | 1.0246             | 1.3500           | 0.9943             |
| 1.5300         | 0.7816             | 1.5500           | 1.0019             |
| 1.7400         | 1.0252             | 1.7500           | 1.0002             |
| 1.9400         | 1.0242             | 1.9500           | 1.0029             |
| 2.1400         | 1.0249             | 2.1600           | 0.9994             |
| 2.3500         | 1.0246             | 2.3700           | 1.0027             |
| 2.5500         | 1.0251             | 2.5800           | 1.0036             |

Flight 20 Test point 18

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 19900. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 336.4 Rnpu = 2923000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6554                     | 0.1891                      | 0.0803                  | 0.1 x/c          |
| Outboard station rake | 0.2958                     | 0.0961                      | 0.0336                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1114             | 0.0400           | 0.2575             |
| 0.0500         | 0.3600             | 0.0700           | 0.5484             |
| 0.1100         | 0.5508             | 0.1200           | 0.7466             |
| 0.1700         | 0.6534             | 0.1800           | 0.8629             |
| 0.2200         | 0.7051             | 0.2100           | 0.9310             |
| 0.2700         | 0.7529             | 0.2700           | 0.9811             |
| 0.3200         | 0.8002             | 0.3100           | 0.9970             |
| 0.3600         | 0.8393             | 0.3700           | 0.9990             |
| 0.4100         | 0.8765             | 0.4200           | 1.0012             |
| 0.5100         | 0.9463             | 0.5300           | 0.9999             |
| 0.7200         | 1.0209             | 0.7300           | 1.0018             |
| 0.9100         | 1.0224             | 0.9400           | 1.0035             |
| 1.1100         | 1.0238             | 1.1500           | 0.9978             |
| 1.3000         | 1.0235             | 1.3500           | 0.9995             |
| 1.5300         | 0.7886             | 1.5500           | 1.0036             |
| 1.7400         | 1.0235             | 1.7500           | 1.0025             |
| 1.9400         | 1.0247             | 1.9500           | 1.0042             |
| 2.1400         | 1.0244             | 2.1600           | 1.0023             |
| 2.3500         | 1.0246             | 2.3700           | 1.0027             |
| 2.5500         | 1.0238             | 2.5800           | 1.0038             |



Flight 20 Test point 19

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 19900. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 333.4 Rrho = 2904000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6784                     | 0.2130                      | 0.0907                  | 0.1 x/c          |
| Outboard station rake | 0.3284                     | 0.1134                      | 0.0409                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.6250             | 0.0400           | 0.6284             |
| 0.0500         | 0.4360             | 0.0700           | 0.2369             |
| 0.1100         | 0.2844             | 0.1200           | 0.5971             |
| 0.1700         | 0.5384             | 0.1800           | 0.7807             |
| 0.2200         | 0.6339             | 0.2100           | 0.8743             |
| 0.2700         | 0.7012             | 0.2700           | 0.9524             |
| 0.3200         | 0.7594             | 0.3100           | 0.9857             |
| 0.3600         | 0.8077             | 0.3700           | 0.9932             |
| 0.4100         | 0.8467             | 0.4200           | 0.9960             |
| 0.5100         | 0.9224             | 0.5300           | 0.9945             |
| 0.7200         | 1.0170             | 0.7300           | 0.9991             |
| 0.9100         | 1.0186             | 0.9400           | 1.0019             |
| 1.1100         | 1.0199             | 1.1500           | 0.9966             |
| 1.3000         | 1.0221             | 1.3500           | 0.9984             |
| 1.5300         | 0.8159             | 1.5500           | 1.0030             |
| 1.7400         | 1.0222             | 1.7500           | 1.0033             |
| 1.9400         | 1.0205             | 1.9500           | 1.0048             |
| 2.1400         | 1.0203             | 2.1600           | 1.0013             |
| 2.3500         | 1.0208             | 2.3700           | 1.0028             |
| 2.5500         | 1.0228             | 2.5800           | 1.0052             |

Flight 20 Test point 20

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 19700. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 337.8 Rrho = 2927000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6479                     | 0.1843                      | 0.0784                  | 0.1 x/c          |
| Outboard station rake | 0.2911                     | 0.0866                      | 0.0324                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.1025 | 0.0400           | 0.3636 |
| 0.0500         | 0.3775 | 0.0700           | 0.5948 |
| 0.1100         | 0.5591 | 0.1200           | 0.7736 |
| 0.1700         | 0.6593 | 0.1800           | 0.8864 |
| 0.2200         | 0.7117 | 0.2100           | 0.9468 |
| 0.2700         | 0.7628 | 0.2700           | 0.9875 |
| 0.3200         | 0.8056 | 0.3100           | 0.9989 |
| 0.3600         | 0.8474 | 0.3700           | 0.9996 |
| 0.4100         | 0.8840 | 0.4200           | 1.0005 |
| 0.5100         | 0.9515 | 0.5300           | 0.9995 |
| 0.7200         | 1.0222 | 0.7300           | 1.0008 |
| 0.9100         | 1.0230 | 0.9400           | 1.0039 |
| 1.1100         | 1.0242 | 1.1500           | 0.9977 |
| 1.3000         | 1.0234 | 1.3500           | 0.9978 |
| 1.5300         | 0.7870 | 1.5500           | 1.0034 |
| 1.7400         | 1.0245 | 1.7500           | 1.0026 |
| 1.9400         | 1.0238 | 1.9500           | 1.0030 |
| 2.1400         | 1.0237 | 2.1600           | 1.0006 |
| 2.3500         | 1.0243 | 2.3700           | 1.0021 |
| 2.5500         | 1.0239 | 2.5800           | 1.0021 |

Flight 20 Test point 21

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 20100. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 330.4 Rrho = 2889000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6693                     | 0.2012                      | 0.0859                  | 0.1 x/c          |
| Outboard station rake | 0.3275                     | 0.1178                      | 0.0430                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.2980 | 0.0400           | 0.3896 |
| 0.0500         | 0.2511 | 0.0700           | 0.3326 |
| 0.1100         | 0.5094 | 0.1200           | 0.6382 |
| 0.1700         | 0.6272 | 0.1800           | 0.7801 |
| 0.2200         | 0.6854 | 0.2100           | 0.8594 |
| 0.2700         | 0.7343 | 0.2700           | 0.9377 |
| 0.3200         | 0.7826 | 0.3100           | 0.9819 |
| 0.3600         | 0.8232 | 0.3700           | 0.9970 |
| 0.4100         | 0.8598 | 0.4200           | 1.0005 |
| 0.5100         | 0.9309 | 0.5300           | 0.9991 |
| 0.7200         | 1.0194 | 0.7300           | 1.0027 |
| 0.9100         | 1.0221 | 0.9400           | 1.0035 |
| 1.1100         | 1.0242 | 1.1500           | 0.9977 |
| 1.3000         | 1.0234 | 1.3500           | 0.9989 |
| 1.5300         | 0.7945 | 1.5500           | 1.0033 |
| 1.7400         | 1.0238 | 1.7500           | 1.0033 |
| 1.9400         | 1.0226 | 1.9500           | 1.0042 |
| 2.1400         | 1.0230 | 2.1600           | 1.0023 |
| 2.3500         | 1.0238 | 2.3700           | 1.0020 |
| 2.5500         | 1.0233 | 2.5800           | 1.0035 |

Flight 20 Test point 22

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 335.6 Rnpu = 2919000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6372                     | 0.1555                      | 0.0782                  | 0.1 x/c          |
| Outboard station rake | 0.3090                     | 0.0859                      | 0.0370                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4957             | 0.0400           | 0.5445             |
| 0.0500         | 0.5590             | 0.0700           | 0.6441             |
| 0.1100         | 0.6358             | 0.1200           | 0.7547             |
| 0.1700         | 0.6986             | 0.1800           | 0.8442             |
| 0.2200         | 0.7403             | 0.2100           | 0.9078             |
| 0.2700         | 0.7823             | 0.2700           | 0.9667             |
| 0.3200         | 0.8213             | 0.3100           | 0.9928             |
| 0.3600         | 0.8602             | 0.3700           | 0.9983             |
| 0.4100         | 0.8919             | 0.4200           | 1.0024             |
| 0.5100         | 0.9580             | 0.5300           | 1.0010             |
| 0.7200         | 1.0239             | 0.7300           | 1.0006             |
| 0.9100         | 1.0236             | 0.9400           | 1.0030             |
| 1.1100         | 1.0250             | 1.1500           | 0.9984             |
| 1.3000         | 1.0252             | 1.3500           | 0.9957             |
| 1.5300         | 0.7774             | 1.5500           | 1.0009             |
| 1.7400         | 1.0247             | 1.7500           | 1.0015             |
| 1.9400         | 1.0256             | 1.9500           | 1.0020             |
| 2.1400         | 1.0254             | 2.1600           | 1.0002             |
| 2.3500         | 1.0252             | 2.3700           | 1.0014             |
| 2.5500         | 1.0242             | 2.5800           | 1.0020             |

Flight 20 Test point 23

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 336.3 Rrho = 2918000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6425                     | 0.1572                      | 0.0789                  | 0.1 x/c          |
| Outboard station rake | 0.3092                     | 0.0853                      | 0.0367                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4930             | 0.0400           | 0.5465             |
| 0.0500         | 0.5572             | 0.0700           | 0.6473             |
| 0.1100         | 0.6326             | 0.1200           | 0.7589             |
| 0.1700         | 0.6943             | 0.1800           | 0.8464             |
| 0.2200         | 0.7374             | 0.2100           | 0.9097             |
| 0.2700         | 0.7803             | 0.2700           | 0.9674             |
| 0.3200         | 0.8176             | 0.3100           | 0.9965             |
| 0.3600         | 0.8562             | 0.3700           | 1.0022             |
| 0.4100         | 0.8924             | 0.4200           | 1.0031             |
| 0.5100         | 0.9567             | 0.5300           | 1.0029             |
| 0.7200         | 1.0221             | 0.7300           | 1.0025             |
| 0.9100         | 1.0240             | 0.9400           | 1.0045             |
| 1.1100         | 1.0247             | 1.1500           | 1.0009             |
| 1.3000         | 1.0252             | 1.3500           | 0.9963             |
| 1.5300         | 0.7795             | 1.5500           | 1.0036             |
| 1.7400         | 1.0261             | 1.7500           | 1.0042             |
| 1.9400         | 1.0244             | 1.9500           | 1.0050             |
| 2.1400         | 1.0244             | 2.1500           | 1.0008             |
| 2.3500         | 1.0241             | 2.3700           | 1.0026             |
| 2.5500         | 1.0256             | 2.5800           | 1.0043             |

Flight 20 Test point 24

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 19900. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 337.3 R<sub>npu</sub> = 2926000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6484                     | 0.1604                      | 0.0802                  | 0.1 x/c          |
| Outboard station rake | 0.3260                     | 0.0905                      | 0.0390                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4837             | 0.0400           | 0.5183             |
| 0.0500         | 0.5475             | 0.0700           | 0.6224             |
| 0.1100         | 0.6303             | 0.1200           | 0.7406             |
| 0.1700         | 0.6920             | 0.1800           | 0.8327             |
| 0.2200         | 0.7320             | 0.2100           | 0.8965             |
| 0.2700         | 0.7761             | 0.2700           | 0.9561             |
| 0.3200         | 0.8142             | 0.3100           | 0.9881             |
| 0.3600         | 0.8534             | 0.3700           | 0.9985             |
| 0.4100         | 0.8863             | 0.4200           | 1.0010             |
| 0.5100         | 0.9526             | 0.5300           | 1.0001             |
| 0.7200         | 1.0214             | 0.7300           | 1.0013             |
| 0.9100         | 1.0238             | 0.9400           | 1.0020             |
| 1.1100         | 1.0252             | 1.1500           | 0.9988             |
| 1.3000         | 1.0239             | 1.3500           | 0.9974             |
| 1.5300         | 0.7797             | 1.5500           | 1.0026             |
| 1.7400         | 1.0267             | 1.7500           | 1.0012             |
| 1.9400         | 1.0250             | 1.9500           | 1.0041             |
| 2.1400         | 1.0266             | 2.1600           | 1.0008             |
| 2.3500         | 1.0234             | 2.3700           | 1.0018             |
| 2.5500         | 1.0243             | 2.5800           | 1.0024             |

Flight 20 Test point 25

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 334.7 Rrho = 2913000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6476                     | 0.1493                      | 0.0780                  | 0.1 x/c          |
| Outboard station rake | 0.4969                     | 0.1300                      | 0.0630                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5738 | 0.0400           | 0.5634 |
| 0.0500         | 0.6046 | 0.0700           | 0.6051 |
| 0.1100         | 0.6652 | 0.1200           | 0.6742 |
| 0.1700         | 0.7152 | 0.1800           | 0.7319 |
| 0.2200         | 0.7476 | 0.2100           | 0.7765 |
| 0.2700         | 0.7881 | 0.2700           | 0.8294 |
| 0.3200         | 0.8227 | 0.3100           | 0.8732 |
| 0.3600         | 0.8587 | 0.3700           | 0.9128 |
| 0.4100         | 0.8905 | 0.4200           | 0.9499 |
| 0.5100         | 0.9517 | 0.5300           | 0.9934 |
| 0.7200         | 1.0222 | 0.7300           | 1.0005 |
| 0.9100         | 1.0258 | 0.9400           | 1.0038 |
| 1.1100         | 1.0276 | 1.1500           | 0.9982 |
| 1.3000         | 1.0271 | 1.3500           | 0.9959 |
| 1.5300         | 0.7650 | 1.5500           | 1.0018 |
| 1.7400         | 1.0270 | 1.7500           | 1.0016 |
| 1.9400         | 1.0265 | 1.9500           | 1.0033 |
| 2.1400         | 1.0262 | 2.1600           | 0.9991 |
| 2.3500         | 1.0259 | 2.3700           | 1.0008 |
| 2.5500         | 1.0266 | 2.5800           | 1.0017 |

Flight 20 Test point 26

Sweep, deg = 30.1 Mach = 0.70 hp, ft = 19800. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 337.4 Rrho = 2931000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6506                     | 0.1509                      | 0.0786                  | 0.1 x/c          |
| Outboard station rake | 0.7080                     | 0.1333                      | 0.0658                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5695             | 0.0400           | 0.5622             |
| 0.0500         | 0.6052             | 0.0700           | 0.6048             |
| 0.1100         | 0.6604             | 0.1200           | 0.6732             |
| 0.1700         | 0.7104             | 0.1800           | 0.7286             |
| 0.2200         | 0.7474             | 0.2100           | 0.7725             |
| 0.2700         | 0.7872             | 0.2700           | 0.8222             |
| 0.3200         | 0.8197             | 0.3100           | 0.8672             |
| 0.3600         | 0.8590             | 0.3700           | 0.9084             |
| 0.4100         | 0.8895             | 0.4200           | 0.9470             |
| 0.5100         | 0.9491             | 0.5300           | 0.9926             |
| 0.7200         | 1.0220             | 0.7300           | 1.0008             |
| 0.9100         | 1.0249             | 0.9400           | 1.0011             |
| 1.1100         | 1.0277             | 1.1500           | 0.9972             |
| 1.3000         | 1.0266             | 1.3500           | 0.9951             |
| 1.5300         | 0.7664             | 1.5500           | 1.0006             |
| 1.7400         | 1.0269             | 1.7500           | 1.0015             |
| 1.9400         | 1.0264             | 1.9500           | 1.0023             |
| 2.1400         | 1.0281             | 2.1600           | 0.9999             |
| 2.3500         | 1.0245             | 2.3700           | 1.0005             |
| 2.5500         | 1.0265             | 2.5800           | 1.0010             |



Flight 20 Test point 27

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 333.6 Rrho = 2906000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6556                     | 0.1502                      | 0.0792                  | 0.1 x/c          |
| Outboard station rake | 0.5723                     | 0.1332                      | 0.0673                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5829             | 0.0400           | 0.5938             |
| 0.0500         | 0.6100             | 0.0700           | 0.6244             |
| 0.1100         | 0.6646             | 0.1200           | 0.6853             |
| 0.1700         | 0.7159             | 0.1800           | 0.7351             |
| 0.2200         | 0.7517             | 0.2100           | 0.7723             |
| 0.2700         | 0.7905             | 0.2700           | 0.8226             |
| 0.3200         | 0.8249             | 0.3100           | 0.8630             |
| 0.3600         | 0.8572             | 0.3700           | 0.8960             |
| 0.4100         | 0.8859             | 0.4200           | 0.9325             |
| 0.5100         | 0.9425             | 0.5300           | 0.9828             |
| 0.7200         | 1.0224             | 0.7300           | 1.0022             |
| 0.9100         | 1.0294             | 0.9400           | 1.0043             |
| 1.1100         | 1.0328             | 1.1500           | 0.9999             |
| 1.3000         | 1.0323             | 1.3500           | 0.9972             |
| 1.5300         | 0.7245             | 1.5500           | 1.0026             |
| 1.7400         | 1.0321             | 1.7500           | 1.0017             |
| 1.9400         | 1.0317             | 1.9500           | 1.0039             |
| 2.1400         | 1.0311             | 2.1600           | 1.0009             |
| 2.3500         | 1.0318             | 2.3700           | 1.0015             |
| 2.5500         | 1.0319             | 2.5800           | 1.0030             |

Flight 20 Test point 28

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 19700. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 338.5 Rrho = 2941000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6503                     | 0.1462                      | 0.0775                  | 0.1 x/c          |
| Outboard station rake | 0.5654                     | 0.1306                      | 0.0662                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5902             | 0.0400           | 0.6022             |
| 0.0500         | 0.6198             | 0.0700           | 0.6288             |
| 0.1100         | 0.6756             | 0.1200           | 0.6916             |
| 0.1700         | 0.7228             | 0.1800           | 0.7397             |
| 0.2200         | 0.7601             | 0.2100           | 0.7768             |
| 0.2700         | 0.7967             | 0.2700           | 0.8253             |
| 0.3200         | 0.8281             | 0.3100           | 0.8668             |
| 0.3600         | 0.8624             | 0.3700           | 0.9008             |
| 0.4100         | 0.8909             | 0.4200           | 0.9337             |
| 0.5100         | 0.9455             | 0.5300           | 0.9831             |
| 0.7200         | 1.0237             | 0.7300           | 1.0035             |
| 0.9100         | 1.0290             | 0.9400           | 1.0038             |
| 1.1100         | 1.0315             | 1.1500           | 0.9999             |
| 1.3000         | 1.0316             | 1.3500           | 0.9968             |
| 1.5300         | 0.7234             | 1.5500           | 1.0015             |
| 1.7400         | 1.0332             | 1.7500           | 1.0015             |
| 1.9400         | 1.0319             | 1.9500           | 1.0045             |
| 2.1400         | 1.0326             | 2.1600           | 1.0006             |
| 2.3500         | 1.0315             | 2.3700           | 1.0015             |
| 2.5500         | 1.0316             | 2.5800           | 1.0034             |

Flight 20 Test point 29

Sweep, deg = 34.9 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 384.0 Rrho = 3141000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6623                     | 0.1598                      | 0.0818                  | 0.1 x/c          |
| Outboard station rake | 0.5754                     | 0.1426                      | 0.0700                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5688             | 0.0400           | 0.5755             |
| 0.0500         | 0.5982             | 0.0700           | 0.6106             |
| 0.1100         | 0.6519             | 0.1200           | 0.6674             |
| 0.1700         | 0.7006             | 0.1900           | 0.7178             |
| 0.2200         | 0.7406             | 0.2100           | 0.7559             |
| 0.2700         | 0.7763             | 0.2700           | 0.8069             |
| 0.3200         | 0.8092             | 0.3100           | 0.8493             |
| 0.3600         | 0.8442             | 0.3700           | 0.8883             |
| 0.4100         | 0.8765             | 0.4200           | 0.9229             |
| 0.5100         | 0.9377             | 0.5300           | 0.9793             |
| 0.7200         | 1.0208             | 0.7300           | 1.0030             |
| 0.9100         | 1.0272             | 0.9400           | 1.0037             |
| 1.1100         | 1.0294             | 1.1500           | 1.0000             |
| 1.3000         | 1.0290             | 1.3500           | 0.9985             |
| 1.5300         | 0.7510             | 1.5500           | 1.0030             |
| 1.7400         | 1.0283             | 1.7500           | 1.0021             |
| 1.9400         | 1.0289             | 1.9500           | 1.0041             |
| 2.1400         | 1.0289             | 2.1600           | 1.0014             |
| 2.3500         | 1.0285             | 2.3700           | 1.0024             |
| 2.5500         | 1.0281             | 2.5800           | 1.0026             |

Flight 20 Test point 30

Sweep, deg = 34.8 Mach = 0.75 hp, ft = 19600. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 390.1 R<sub>npu</sub> = 3183000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6531                     | 0.1526                      | 0.0785                  | 0.1 x/c          |
| Outboard station rake | 0.5657                     | 0.1364                      | 0.0673                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5784             | 0.0400           | 0.5863             |
| 0.0500         | 0.6068             | 0.0700           | 0.6190             |
| 0.1100         | 0.6584             | 0.1200           | 0.6778             |
| 0.1700         | 0.7115             | 0.1800           | 0.7281             |
| 0.2200         | 0.7503             | 0.2100           | 0.7684             |
| 0.2700         | 0.7891             | 0.2700           | 0.8177             |
| 0.3200         | 0.8230             | 0.3100           | 0.8586             |
| 0.3600         | 0.8572             | 0.3700           | 0.8980             |
| 0.4100         | 0.8871             | 0.4200           | 0.9319             |
| 0.5100         | 0.9465             | 0.5300           | 0.9847             |
| 0.7200         | 1.0219             | 0.7300           | 1.0033             |
| 0.9100         | 1.0284             | 0.9400           | 1.0031             |
| 1.1100         | 1.0288             | 1.1500           | 1.0000             |
| 1.3000         | 1.0296             | 1.3500           | 0.9987             |
| 1.5300         | 0.7454             | 1.5500           | 1.0009             |
| 1.7400         | 1.0290             | 1.7500           | 1.0021             |
| 1.9400         | 1.0294             | 1.9500           | 1.0028             |
| 2.1400         | 1.0295             | 2.1600           | 1.0002             |
| 2.3500         | 1.0297             | 2.3700           | 1.0027             |
| 2.5500         | 1.0284             | 2.5800           | 1.0015             |

Flight 20 Test point 31

Sweep, deg = 34.9 Mach = 0.75 hp, ft = 19900. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 387.5 Rrho = 3161000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6774                     | 0.1675                      | 0.0850                  | 0.1 x/c          |
| Outboard station rake | 0.5906                     | 0.1509                      | 0.0736                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5591             | 0.0400           | 0.5647             |
| 0.0500         | 0.5877             | 0.0700           | 0.5977             |
| 0.1100         | 0.6380             | 0.1200           | 0.6554             |
| 0.1700         | 0.6921             | 0.1800           | 0.7063             |
| 0.2200         | 0.7299             | 0.2100           | 0.7431             |
| 0.2700         | 0.7700             | 0.2700           | 0.7933             |
| 0.3200         | 0.8015             | 0.3100           | 0.8357             |
| 0.3600         | 0.8367             | 0.3700           | 0.8747             |
| 0.4100         | 0.8670             | 0.4200           | 0.9102             |
| 0.5100         | 0.9268             | 0.5300           | 0.9706             |
| 0.7200         | 1.0165             | 0.7300           | 1.0035             |
| 0.9100         | 1.0290             | 0.9400           | 1.0043             |
| 1.1100         | 1.0324             | 1.1500           | 1.0017             |
| 1.3000         | 1.0317             | 1.3500           | 0.9996             |
| 1.5300         | 0.7558             | 1.5500           | 1.0035             |
| 1.7400         | 1.0306             | 1.7500           | 1.0019             |
| 1.9400         | 1.0302             | 1.9500           | 1.0042             |
| 2.1400         | 1.0292             | 2.1600           | 1.0023             |
| 2.3500         | 1.0302             | 2.3700           | 1.0048             |
| 2.5500         | 1.0308             | 2.5800           | 1.0035             |

Flight 20 Test point 32

Sweep, deg = 30.0 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 384.8 Rrho = 3146000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6670                     | 0.1669                      | 0.0839                  | 0.1 x/c          |
| Outboard station rake | 0.5632                     | 0.1500                      | 0.0712                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5404             | 0.0400           | 0.5190             |
| 0.0500         | 0.5782             | 0.0700           | 0.5725             |
| 0.1100         | 0.6319             | 0.1200           | 0.6422             |
| 0.1700         | 0.6828             | 0.1800           | 0.6972             |
| 0.2200         | 0.7228             | 0.2100           | 0.7416             |
| 0.2700         | 0.7642             | 0.2700           | 0.7945             |
| 0.3200         | 0.8008             | 0.3100           | 0.8406             |
| 0.3600         | 0.8382             | 0.3700           | 0.8852             |
| 0.4100         | 0.8727             | 0.4200           | 0.9255             |
| 0.5100         | 0.9368             | 0.5300           | 0.9841             |
| 0.7200         | 1.0188             | 0.7300           | 1.0017             |
| 0.9100         | 1.0237             | 0.9400           | 1.0038             |
| 1.1100         | 1.0256             | 1.1500           | 0.9994             |
| 1.3000         | 1.0245             | 1.3500           | 0.9986             |
| 1.5300         | 0.7855             | 1.5500           | 1.0015             |
| 1.7400         | 1.0249             | 1.7500           | 1.0025             |
| 1.9400         | 1.0242             | 1.9500           | 1.0034             |
| 2.1400         | 1.0242             | 2.1600           | 1.0011             |
| 2.3500         | 1.0247             | 2.3700           | 1.0021             |
| 2.5500         | 1.0240             | 2.5800           | 1.0019             |

Flight 20 Test point 33

Sweep, deg = 29.7 Mach = 0.75 hp, ft = 19800. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 382.8 Rrho = 3142000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6578                     | 0.1595                      | 0.0810                  | 0.1 x/c          |
| Outboard station rake | 0.5585                     | 0.1430                      | 0.0688                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5503             | 0.0400           | 0.5442             |
| 0.0500         | 0.5876             | 0.0700           | 0.5890             |
| 0.1100         | 0.6449             | 0.1200           | 0.6552             |
| 0.1700         | 0.6996             | 0.1800           | 0.7098             |
| 0.2200         | 0.7355             | 0.2100           | 0.7527             |
| 0.2700         | 0.7773             | 0.2700           | 0.8064             |
| 0.3200         | 0.8101             | 0.3100           | 0.8521             |
| 0.3600         | 0.8431             | 0.3700           | 0.8968             |
| 0.4100         | 0.8797             | 0.4200           | 0.9328             |
| 0.5100         | 0.9444             | 0.5300           | 0.9873             |
| 0.7200         | 1.0205             | 0.7300           | 1.0018             |
| 0.9100         | 1.0241             | 0.9400           | 1.0022             |
| 1.1100         | 1.0251             | 1.1500           | 0.9981             |
| 1.3000         | 1.0242             | 1.3500           | 0.9983             |
| 1.5300         | 0.7815             | 1.5500           | 1.0022             |
| 1.7400         | 1.0246             | 1.7500           | 1.0022             |
| 1.9400         | 1.0247             | 1.9500           | 1.0028             |
| 2.1400         | 1.0248             | 2.1600           | 1.0007             |
| 2.3500         | 1.0258             | 2.3700           | 1.0021             |
| 2.5500         | 1.0246             | 2.5800           | 1.0022             |

Flight 20 Test point 34

Sweep, deg = 29.7 Mach = 0.75 hp, ft = 20100. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 380.2 Rnpu = 3117000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6758                     | 0.1737                      | 0.0868                  | 0.1 x/c          |
| Outboard station rake | 0.5622                     | 0.1522                      | 0.0719                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5327 | 0.0400           | 0.5132 |
| 0.0500         | 0.5626 | 0.0700           | 0.5640 |
| 0.1100         | 0.6219 | 0.1200           | 0.6354 |
| 0.1700         | 0.6766 | 0.1800           | 0.6918 |
| 0.2200         | 0.7133 | 0.2100           | 0.7348 |
| 0.2700         | 0.7537 | 0.2700           | 0.7908 |
| 0.3200         | 0.7916 | 0.3100           | 0.8378 |
| 0.3600         | 0.8283 | 0.3700           | 0.8830 |
| 0.4100         | 0.8617 | 0.4200           | 0.9234 |
| 0.5100         | 0.9280 | 0.5300           | 0.9840 |
| 0.7200         | 1.0170 | 0.7300           | 1.0021 |
| 0.9100         | 1.0226 | 0.9400           | 1.0026 |
| 1.1100         | 1.0257 | 1.1500           | 0.9999 |
| 1.3000         | 1.0248 | 1.3500           | 0.9989 |
| 1.5300         | 0.7872 | 1.5500           | 1.0024 |
| 1.7400         | 1.0243 | 1.7500           | 1.0020 |
| 1.9400         | 1.0250 | 1.9500           | 1.0028 |
| 2.1400         | 1.0245 | 2.1600           | 1.0011 |
| 2.3500         | 1.0252 | 2.3700           | 1.0017 |
| 2.5500         | 1.0237 | 2.5800           | 1.0025 |



Flight 20 Test point 35

Sweep, deg = 24.9 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 381.8 Rrho = 3130000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | 0.6492                        | 0.1747                         | 0.0830                     | 0.1 x/c             |
| Outboard station rake | 0.5478                        | 0.1582                         | 0.0683                     | none                |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4138             | 0.0400           | 0.3417             |
| 0.0500         | 0.4983             | 0.0700           | 0.4816             |
| 0.1100         | 0.5978             | 0.1200           | 0.6021             |
| 0.1700         | 0.6651             | 0.1800           | 0.6856             |
| 0.2200         | 0.7056             | 0.2100           | 0.7353             |
| 0.2700         | 0.7526             | 0.2700           | 0.7987             |
| 0.3200         | 0.7974             | 0.3100           | 0.8485             |
| 0.3600         | 0.8400             | 0.3700           | 0.8986             |
| 0.4100         | 0.8772             | 0.4200           | 0.9427             |
| 0.5100         | 0.9491             | 0.5300           | 0.9927             |
| 0.7200         | 1.0226             | 0.7300           | 1.0015             |
| 0.9100         | 1.0215             | 0.9400           | 1.0022             |
| 1.1100         | 1.0238             | 1.1500           | 0.9990             |
| 1.3000         | 1.0227             | 1.3500           | 0.9972             |
| 1.5300         | 0.7915             | 1.5500           | 1.0012             |
| 1.7400         | 1.0230             | 1.7500           | 1.0003             |
| 1.9400         | 1.0233             | 1.9500           | 1.0032             |
| 2.1400         | 1.0229             | 2.1600           | 0.9999             |
| 2.3500         | 1.0244             | 2.3700           | 1.0011             |
| 2.5500         | 1.0242             | 2.5800           | 1.0018             |

Flight 20 Test point 36

Sweep, deg = 24.5 Mach = 0.75 hp, ft = 20100. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 384.6 Rrho = 3143000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6717                     | 0.1932                      | 0.0898                  | 0.1 x/c          |
| Outboard station rake | 0.4510                     | 0.1470                      | 0.0589                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3778             | 0.0400           | 0.2790             |
| 0.0500         | 0.4716             | 0.0700           | 0.4600             |
| 0.1100         | 0.5673             | 0.1200           | 0.6028             |
| 0.1700         | 0.6375             | 0.1800           | 0.6954             |
| 0.2200         | 0.6828             | 0.2100           | 0.7580             |
| 0.2700         | 0.7252             | 0.2700           | 0.8319             |
| 0.3200         | 0.7684             | 0.3100           | 0.8895             |
| 0.3600         | 0.8105             | 0.3700           | 0.9399             |
| 0.4100         | 0.8481             | 0.4200           | 0.9780             |
| 0.5100         | 0.9272             | 0.5300           | 1.0021             |
| 0.7200         | 1.0193             | 0.7300           | 1.0028             |
| 0.9100         | 1.0237             | 0.9400           | 1.0038             |
| 1.1100         | 1.0238             | 1.1500           | 1.0004             |
| 1.3000         | 1.0248             | 1.3500           | 0.9994             |
| 1.5300         | 0.7923             | 1.5500           | 1.0023             |
| 1.7400         | 1.0237             | 1.7500           | 1.0018             |
| 1.9400         | 1.0234             | 1.9500           | 1.0026             |
| 2.1400         | 1.0224             | 2.1600           | 1.0022             |
| 2.3500         | 1.0233             | 2.3700           | 1.0024             |
| 2.5500         | 1.0233             | 2.5800           | 1.0023             |

Flight 20 Test point 37

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 383.8 Rrho = 3140000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6678                     | 0.2106                      | 0.0868                  | 0.1 x/c          |
| Outboard station rake | 0.4018                     | 0.1396                      | 0.0485                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2783             | 0.0400           | 0.1582             |
| 0.0500         | 0.2430             | 0.0700           | 0.3932             |
| 0.1100         | 0.4850             | 0.1200           | 0.6016             |
| 0.1700         | 0.6046             | 0.1800           | 0.7225             |
| 0.2200         | 0.6639             | 0.2100           | 0.8006             |
| 0.2700         | 0.7165             | 0.2700           | 0.8803             |
| 0.3200         | 0.7666             | 0.3100           | 0.9394             |
| 0.3600         | 0.8093             | 0.3700           | 0.9803             |
| 0.4100         | 0.8496             | 0.4200           | 0.9988             |
| 0.5100         | 0.9323             | 0.5300           | 1.0011             |
| 0.7200         | 1.0198             | 0.7300           | 1.0031             |
| 0.9100         | 1.0215             | 0.9400           | 1.0039             |
| 1.1100         | 1.0234             | 1.1500           | 0.9985             |
| 1.3000         | 1.0225             | 1.3500           | 0.9984             |
| 1.5300         | 0.7969             | 1.5500           | 1.0028             |
| 1.7400         | 1.0238             | 1.7500           | 1.0024             |
| 1.9400         | 1.0216             | 1.9500           | 1.0040             |
| 2.1400         | 1.0230             | 2.1600           | 1.0012             |
| 2.3500         | 1.0239             | 2.3700           | 1.0030             |
| 2.5500         | 1.0237             | 2.5800           | 1.0025             |

Flight 20 Test point 38

Sweep, deg = 20.0 Mach = 0.76 hp, ft = 20100. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 387.8 Rrho = 3154000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6712                     | 0.2203                      | 0.0897                  | 0.1 x/c          |
| Outboard station rake | 0.4228                     | 0.1495                      | 0.0498                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.3002 | 0.0400           | 0.0526 |
| 0.0500         | 0.2165 | 0.0700           | 0.4054 |
| 0.1100         | 0.4673 | 0.1200           | 0.5945 |
| 0.1700         | 0.5861 | 0.1800           | 0.7075 |
| 0.2200         | 0.6447 | 0.2100           | 0.7791 |
| 0.2700         | 0.6969 | 0.2700           | 0.8551 |
| 0.3200         | 0.7479 | 0.3100           | 0.9153 |
| 0.3600         | 0.7944 | 0.3700           | 0.9627 |
| 0.4100         | 0.8352 | 0.4200           | 0.9913 |
| 0.5100         | 0.9213 | 0.5300           | 0.9994 |
| 0.7200         | 1.0212 | 0.7300           | 1.0015 |
| 0.9100         | 1.0245 | 0.9400           | 1.0033 |
| 1.1100         | 1.0254 | 1.1500           | 0.9979 |
| 1.3000         | 1.0250 | 1.3500           | 0.9968 |
| 1.5300         | 0.7998 | 1.5500           | 1.0028 |
| 1.7400         | 1.0249 | 1.7500           | 1.0014 |
| 1.9400         | 1.0252 | 1.9500           | 1.0024 |
| 2.1400         | 1.0252 | 2.1600           | 1.0007 |
| 2.3500         | 1.0245 | 2.3700           | 1.0013 |
| 2.5500         | 1.0254 | 2.5800           | 1.0014 |

Flight 20 Test point 39

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 20100. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 382.3 Rrho = 3128000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6765                     | 0.2376                      | 0.0945                  | 0.1 x/c          |
| Outboard station rake | 0.4557                     | 0.1646                      | 0.0602                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2535             | 0.0400           | 0.1783             |
| 0.0500         | 0.2359             | 0.0700           | 0.3476             |
| 0.1100         | 0.4583             | 0.1200           | 0.5508             |
| 0.1700         | 0.5748             | 0.1800           | 0.6617             |
| 0.2200         | 0.6300             | 0.2100           | 0.7288             |
| 0.2700         | 0.6795             | 0.2700           | 0.8057             |
| 0.3200         | 0.7271             | 0.3100           | 0.8673             |
| 0.3600         | 0.7722             | 0.3700           | 0.9243             |
| 0.4100         | 0.8141             | 0.4200           | 0.9696             |
| 0.5100         | 0.8997             | 0.5300           | 1.0014             |
| 0.7200         | 1.0205             | 0.7300           | 1.0046             |
| 0.9100         | 1.0259             | 0.9400           | 1.0051             |
| 1.1100         | 1.0260             | 1.1500           | 1.0001             |
| 1.3000         | 1.0243             | 1.3500           | 1.0000             |
| 1.5300         | 0.7994             | 1.5500           | 1.0037             |
| 1.7400         | 1.0252             | 1.7500           | 1.0037             |
| 1.9400         | 1.0260             | 1.9500           | 1.0041             |
| 2.1400         | 1.0248             | 2.1600           | 1.0019             |
| 2.3500         | 1.0247             | 2.3700           | 1.0025             |
| 2.5500         | 1.0237             | 2.5800           | 1.0031             |

Flight 20 Test point 40

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 435.2 Rrho = 3364000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6888                     | 0.2769                      | 0.0935                  | 0.1 x/c          |
| Outboard station rake | 0.7185                     | 0.2407                      | 0.0811                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5092             | 0.0400           | 0.5445             |
| 0.0500         | 0.4642             | 0.0700           | 0.4876             |
| 0.1100         | 0.2772             | 0.1200           | 0.2600             |
| 0.1700         | 0.2791             | 0.1800           | 0.3018             |
| 0.2200         | 0.4381             | 0.2100           | 0.4602             |
| 0.2700         | 0.5533             | 0.2700           | 0.6001             |
| 0.3200         | 0.6450             | 0.3100           | 0.7020             |
| 0.3600         | 0.7240             | 0.3700           | 0.7972             |
| 0.4100         | 0.7898             | 0.4200           | 0.8757             |
| 0.5100         | 0.9023             | 0.5300           | 0.9818             |
| 0.7200         | 1.0153             | 0.7300           | 1.0010             |
| 0.9100         | 1.0173             | 0.9400           | 1.0019             |
| 1.1100         | 1.0188             | 1.1500           | 0.9985             |
| 1.3000         | 1.0176             | 1.3500           | 0.9991             |
| 1.5300         | 0.8634             | 1.5500           | 1.0018             |
| 1.7400         | 1.0181             | 1.7500           | 1.0013             |
| 1.9400         | 1.0178             | 1.9500           | 1.0017             |
| 2.1400         | 1.0180             | 2.1600           | 0.9999             |
| 2.3500         | 1.0168             | 2.3700           | 0.9978             |
| 2.5500         | 1.0124             | 2.5800           | 0.9970             |

Flight 20 Test point 41

Sweep, deg = 34.9 Mach = 0.81 hp, ft = 20100. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 438.6 Rrho = 3377000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6896                     | 0.1934                      | 0.0933                  | 0.1 x/c          |
| Outboard station rake | 0.7185                     | 0.1722                      | 0.0814                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5136             | 0.0400           | 0.5244             |
| 0.0500         | 0.5413             | 0.0700           | 0.5514             |
| 0.1100         | 0.5922             | 0.1200           | 0.6037             |
| 0.1700         | 0.6426             | 0.1800           | 0.6633             |
| 0.2200         | 0.6845             | 0.2100           | 0.7062             |
| 0.2700         | 0.7219             | 0.2700           | 0.7585             |
| 0.3200         | 0.7588             | 0.3100           | 0.8061             |
| 0.3600         | 0.8011             | 0.3700           | 0.8535             |
| 0.4100         | 0.8356             | 0.4200           | 0.8911             |
| 0.5100         | 0.9093             | 0.5300           | 0.9641             |
| 0.7200         | 1.0137             | 0.7300           | 1.0019             |
| 0.9100         | 1.0225             | 0.9400           | 1.0023             |
| 1.1100         | 1.0293             | 1.1500           | 1.0000             |
| 1.3000         | 1.0310             | 1.3500           | 0.9981             |
| 1.5300         | 0.7673             | 1.5500           | 1.0006             |
| 1.7400         | 1.0307             | 1.7500           | 1.0002             |
| 1.9400         | 1.0281             | 1.9500           | 1.0003             |
| 2.1400         | 1.0291             | 2.1600           | 0.9967             |
| 2.3500         | 1.0267             | 2.3700           | 0.9991             |
| 2.5500         | 1.0294             | 2.5800           | 1.0009             |

Flight 20 Test point 42

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20100. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 437.8 Rrho = 3374000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.8379                     | 0.4390                      | 0.0924                  | 0.1 x/c          |
| Outboard station rake | 0.5324                     | 0.2261                      | 0.0704                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.0321             | 0.0400           | 0.5187             |
| 0.0500         | 0.0846             | 0.0700           | 0.4607             |
| 0.1100         | 0.0884             | 0.1200           | 0.1917             |
| 0.1700         | 0.0780             | 0.1800           | 0.3471             |
| 0.2200         | 0.1435             | 0.2100           | 0.5036             |
| 0.2700         | 0.2502             | 0.2700           | 0.6452             |
| 0.3200         | 0.3301             | 0.3100           | 0.7554             |
| 0.3600         | 0.4217             | 0.3700           | 0.8550             |
| 0.4100         | 0.5123             | 0.4200           | 0.9282             |
| 0.5100         | 0.6890             | 0.5300           | 0.9986             |
| 0.7200         | 0.9648             | 0.7300           | 1.0028             |
| 0.9100         | 1.0197             | 0.9400           | 1.0039             |
| 1.1100         | 1.0207             | 1.1500           | 1.0005             |
| 1.3000         | 1.0204             | 1.3500           | 1.0011             |
| 1.5300         | 0.8487             | 1.5500           | 1.0041             |
| 1.7400         | 1.0196             | 1.7500           | 1.0033             |
| 1.9400         | 1.0195             | 1.9500           | 1.0031             |
| 2.1400         | 1.0183             | 2.1600           | 1.0000             |
| 2.3500         | 1.0186             | 2.3700           | 0.9936             |
| 2.5500         | 1.0145             | 2.5800           | 0.9890             |



Flight 20 Test point 43

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 435.0 Rrho = 3361000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6864                     | 0.2677                      | 0.0966                  | 0.1 x/c          |
| Outboard station rake | 0.7248                     | 0.2495                      | 0.0827                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1289             | 0.0400           | 0.3007             |
| 0.0500         | 0.2449             | 0.0700           | 0.1912             |
| 0.1100         | 0.3631             | 0.1200           | 0.2852             |
| 0.1700         | 0.4593             | 0.1800           | 0.4329             |
| 0.2200         | 0.5234             | 0.2100           | 0.5213             |
| 0.2700         | 0.5946             | 0.2700           | 0.6268             |
| 0.3200         | 0.6573             | 0.3100           | 0.7161             |
| 0.3600         | 0.7216             | 0.3700           | 0.7982             |
| 0.4100         | 0.7823             | 0.4200           | 0.8643             |
| 0.5100         | 0.8914             | 0.5300           | 0.9620             |
| 0.7200         | 1.0187             | 0.7300           | 1.0009             |
| 0.9100         | 1.0238             | 0.9400           | 1.0013             |
| 1.1100         | 1.0258             | 1.1500           | 0.9995             |
| 1.3000         | 1.0250             | 1.3500           | 0.9978             |
| 1.5300         | 0.8045             | 1.5500           | 1.0005             |
| 1.7400         | 1.0249             | 1.7500           | 0.9998             |
| 1.9400         | 1.0240             | 1.9500           | 1.0011             |
| 2.1400         | 1.0247             | 2.1600           | 1.0001             |
| 2.3500         | 1.0242             | 2.3700           | 1.0006             |
| 2.5500         | 1.0233             | 2.5800           | 0.9984             |

Flight 20 Test point 44

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 20200. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.5 QBAR, lb/ft<sup>2</sup> = 435.1 Rrho = 3358000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6898                     | 0.2695                      | 0.0895                  | 0.1 x/c          |
| Outboard station rake | 0.7218                     | 0.2445                      | 0.0809                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3414             | 0.0400           | 0.4258             |
| 0.0500         | 0.2483             | 0.0700           | 0.3351             |
| 0.1100         | 0.2502             | 0.1200           | 0.2246             |
| 0.1700         | 0.4347             | 0.1800           | 0.4335             |
| 0.2200         | 0.5300             | 0.2100           | 0.5413             |
| 0.2700         | 0.6137             | 0.2700           | 0.6498             |
| 0.3200         | 0.6876             | 0.3100           | 0.7336             |
| 0.3600         | 0.7550             | 0.3700           | 0.8110             |
| 0.4100         | 0.8132             | 0.4200           | 0.8728             |
| 0.5100         | 0.9069             | 0.5300           | 0.9641             |
| 0.7200         | 1.0140             | 0.7300           | 1.0013             |
| 0.9100         | 1.0174             | 0.9400           | 1.0023             |
| 1.1100         | 1.0177             | 1.1500           | 0.9999             |
| 1.3000         | 1.0178             | 1.3500           | 0.9991             |
| 1.5300         | 0.8675             | 1.5500           | 1.0016             |
| 1.7400         | 1.0171             | 1.7500           | 1.0010             |
| 1.9400         | 1.0174             | 1.9500           | 1.0012             |
| 2.1400         | 1.0174             | 2.1600           | 1.0004             |
| 2.3500         | 1.0163             | 2.3700           | 0.9991             |
| 2.5500         | 1.0114             | 2.5800           | 0.9940             |

Flight 20 Test point 45

Sweep, deg = 30.0 Mach = 0.80 hp, ft = 20000, Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 436.1 Rrho = 3369000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6767                     | 0.2000                      | 0.0940                  | 0.1 x/c          |
| Outboard station rake | 0.7218                     | 0.1769                      | 0.0807                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4814             | 0.0400           | 0.4622             |
| 0.0500         | 0.5100             | 0.0700           | 0.5145             |
| 0.1100         | 0.5626             | 0.1200           | 0.5842             |
| 0.1700         | 0.6186             | 0.1800           | 0.6432             |
| 0.2200         | 0.6586             | 0.2100           | 0.6886             |
| 0.2700         | 0.7015             | 0.2700           | 0.7469             |
| 0.3200         | 0.7467             | 0.3100           | 0.7999             |
| 0.3600         | 0.7914             | 0.3700           | 0.8519             |
| 0.4100         | 0.8331             | 0.4200           | 0.8981             |
| 0.5100         | 0.9147             | 0.5300           | 0.9744             |
| 0.7200         | 1.0197             | 0.7300           | 1.0009             |
| 0.9100         | 1.0263             | 0.9400           | 1.0020             |
| 1.1100         | 1.0270             | 1.1500           | 0.9990             |
| 1.3000         | 1.0265             | 1.3500           | 0.9969             |
| 1.5300         | 0.7895             | 1.5500           | 1.0001             |
| 1.7400         | 1.0267             | 1.7500           | 0.9997             |
| 1.9400         | 1.0268             | 1.9500           | 1.0018             |
| 2.1400         | 1.0260             | 2.1600           | 1.0000             |
| 2.3500         | 1.0261             | 2.3700           | 0.9998             |
| 2.5500         | 1.0251             | 2.5800           | 0.9997             |

Flight 20 Test point 75

Sweep, deg = 30.0 Mach = 0.80 hp, ft = 20100. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 437.4 Rrho = 3372000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6889                     | 0.2358                      | 0.1022                  | 0.1 x/c          |
| Outboard station rake | 0.7198                     | 0.2226                      | 0.0912                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4143             | 0.0400           | 0.3347             |
| 0.0500         | 0.4329             | 0.0700           | 0.3968             |
| 0.1100         | 0.4818             | 0.1200           | 0.4719             |
| 0.1700         | 0.5350             | 0.1800           | 0.5353             |
| 0.2200         | 0.5810             | 0.2100           | 0.5844             |
| 0.2700         | 0.6343             | 0.2700           | 0.6544             |
| 0.3200         | 0.6849             | 0.3100           | 0.7228             |
| 0.3600         | 0.7382             | 0.3700           | 0.7901             |
| 0.4100         | 0.7915             | 0.4200           | 0.8520             |
| 0.5100         | 0.8901             | 0.5300           | 0.9550             |
| 0.7200         | 1.0173             | 0.7300           | 1.0021             |
| 0.9100         | 1.0276             | 0.9400           | 1.0031             |
| 1.1100         | 1.0287             | 1.1500           | 1.0006             |
| 1.3000         | 1.0285             | 1.3500           | 0.9973             |
| 1.5300         | 0.7809             | 1.5500           | 1.0016             |
| 1.7400         | 1.0279             | 1.7500           | 1.0005             |
| 1.9400         | 1.0266             | 1.9500           | 1.0009             |
| 2.1400         | 1.0272             | 2.1600           | 0.9989             |
| 2.3500         | 1.0265             | 2.3700           | 0.9979             |
| 2.5500         | 1.0260             | 2.5800           | 0.9971             |

Flight 20 Test point 47

Sweep, deg = 34.9 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 436.1 Rnpu = 3370000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6697                     | 0.1757                      | 0.0866                  | 0.1 x/c          |
| Outboard station rake | 0.5716                     | 0.1552                      | 0.0731                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5388             | 0.0400           | 0.5346             |
| 0.0500         | 0.5669             | 0.0700           | 0.5701             |
| 0.1100         | 0.6192             | 0.1200           | 0.6304             |
| 0.1700         | 0.6674             | 0.1800           | 0.6900             |
| 0.2200         | 0.7068             | 0.2100           | 0.7326             |
| 0.2700         | 0.7483             | 0.2700           | 0.7857             |
| 0.3200         | 0.7869             | 0.3100           | 0.8338             |
| 0.3600         | 0.8259             | 0.3700           | 0.8759             |
| 0.4100         | 0.8604             | 0.4200           | 0.9173             |
| 0.5100         | 0.9305             | 0.5300           | 0.9791             |
| 0.7200         | 1.0193             | 0.7300           | 1.0029             |
| 0.9100         | 1.0260             | 0.9400           | 1.0041             |
| 1.1100         | 1.0269             | 1.1500           | 1.0006             |
| 1.3000         | 1.0262             | 1.3500           | 0.9994             |
| 1.5300         | 0.7578             | 1.5500           | 1.0026             |
| 1.7400         | 1.0269             | 1.7500           | 1.0017             |
| 1.9400         | 1.0265             | 1.9500           | 1.0034             |
| 2.1400         | 1.0266             | 2.1600           | 1.0010             |
| 2.3500         | 1.0271             | 2.3700           | 1.0029             |
| 2.5500         | 1.0267             | 2.5800           | 1.0023             |

Flight 20 Test point 48

Sweep, deg = 34.9 Mach = 0.80 hp, ft = 19700. Angle of attack, deg = -0.1  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 442.4 Rrho = 3412000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6650                     | 0.1703                      | 0.0844                  | 0.1 x/c          |
| Outboard station rake | 0.5695                     | 0.1505                      | 0.0714                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5437             | 0.0400           | 0.5476             |
| 0.0500         | 0.5748             | 0.0700           | 0.5816             |
| 0.1100         | 0.6278             | 0.1200           | 0.6443             |
| 0.1700         | 0.6784             | 0.1800           | 0.6942             |
| 0.2200         | 0.7151             | 0.2100           | 0.7402             |
| 0.2700         | 0.7598             | 0.2700           | 0.7944             |
| 0.3200         | 0.7983             | 0.3100           | 0.8398             |
| 0.3600         | 0.8338             | 0.3700           | 0.8837             |
| 0.4100         | 0.8677             | 0.4200           | 0.9231             |
| 0.5100         | 0.9358             | 0.5300           | 0.9813             |
| 0.7200         | 1.0201             | 0.7300           | 1.0036             |
| 0.9100         | 1.0260             | 0.9400           | 1.0029             |
| 1.1100         | 1.0277             | 1.1500           | 1.0013             |
| 1.3000         | 1.0266             | 1.3500           | 0.9998             |
| 1.5300         | 0.7659             | 1.5500           | 1.0011             |
| 1.7400         | 1.0276             | 1.7500           | 1.0015             |
| 1.9400         | 1.0267             | 1.9500           | 1.0033             |
| 2.1400         | 1.0264             | 2.1600           | 1.0009             |
| 2.3500         | 1.0266             | 2.3700           | 1.0022             |
| 2.5500         | 1.0265             | 2.5800           | 1.0021             |

Flight 20 Test point 49

Sweep, deg = 34.9 Mach = 0.80 hp, ft = 20100. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 436.0 Rrho = 3365000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6844                     | 0.1898                      | 0.0922                  | 0.1 x/c          |
| Outboard station rake | 0.7204                     | 0.1714                      | 0.0814                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5238             | 0.0400           | 0.5221             |
| 0.0500         | 0.5487             | 0.0700           | 0.5555             |
| 0.1100         | 0.5994             | 0.1200           | 0.6122             |
| 0.1700         | 0.6489             | 0.1800           | 0.6655             |
| 0.2200         | 0.6875             | 0.2100           | 0.7058             |
| 0.2700         | 0.7285             | 0.2700           | 0.7598             |
| 0.3200         | 0.7661             | 0.3100           | 0.8053             |
| 0.3600         | 0.8044             | 0.3700           | 0.8515             |
| 0.4100         | 0.8405             | 0.4200           | 0.8946             |
| 0.5100         | 0.9108             | 0.5300           | 0.9631             |
| 0.7200         | 1.0162             | 0.7300           | 1.0016             |
| 0.9100         | 1.0280             | 0.9400           | 1.0012             |
| 1.1100         | 1.0294             | 1.1500           | 0.9985             |
| 1.3000         | 1.0288             | 1.3500           | 0.9966             |
| 1.5300         | 0.7714             | 1.5500           | 1.0007             |
| 1.7400         | 1.0283             | 1.7500           | 0.9989             |
| 1.9400         | 1.0283             | 1.9500           | 1.0020             |
| 2.1400         | 1.0280             | 2.1600           | 0.9993             |
| 2.3500         | 1.0288             | 2.3700           | 1.0003             |
| 2.5500         | 1.0291             | 2.5800           | 1.0009             |

Flight 20 Test point 50

Sweep, deg = 26.8 Mach = 0.75 hp, ft = 21200. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 363.4 Rrho = 2997000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6748                     | 0.2039                      | 0.0925                  | 0.1 x/c          |
| Outboard station rake | 0.5627                     | 0.1598                      | 0.0686                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3501             | 0.0400           | 0.3362             |
| 0.0500         | 0.4286             | 0.0700           | 0.4587             |
| 0.1100         | 0.5297             | 0.1200           | 0.5900             |
| 0.1700         | 0.6082             | 0.1800           | 0.6813             |
| 0.2200         | 0.6584             | 0.2100           | 0.7429             |
| 0.2700         | 0.7079             | 0.2700           | 0.8097             |
| 0.3200         | 0.7547             | 0.3100           | 0.8596             |
| 0.3600         | 0.7994             | 0.3700           | 0.9003             |
| 0.4100         | 0.8409             | 0.4200           | 0.9348             |
| 0.5100         | 0.9199             | 0.5300           | 0.9837             |
| 0.7200         | 1.0195             | 0.7300           | 1.0028             |
| 0.9100         | 1.0252             | 0.9400           | 1.0042             |
| 1.1100         | 1.0268             | 1.1500           | 0.9996             |
| 1.3000         | 1.0265             | 1.3500           | 0.9985             |
| 1.5300         | 0.7939             | 1.5500           | 1.0026             |
| 1.7400         | 1.0267             | 1.7500           | 1.0022             |
| 1.9400         | 1.0260             | 1.9500           | 1.0036             |
| 2.1400         | 1.0260             | 2.1600           | 1.0006             |
| 2.3500         | 1.0249             | 2.3700           | 1.0012             |
| 2.5500         | 1.0240             | 2.5800           | 1.0009             |



Flight 20 Test point 51

Sweep, deg = 29.7 Mach = 0.83 hp, ft = 20000. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 462.9 Rrho = 3434000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6889                     | 0.2292                      | 0.0899                  | 0.1 x/c          |
| Outboard station rake | 0.7248                     | 0.2221                      | 0.0738                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.2697 | 0.0400           | 0.0687 |
| 0.0500         | 0.3469 | 0.0700           | 0.2748 |
| 0.1100         | 0.4580 | 0.1200           | 0.4506 |
| 0.1700         | 0.5513 | 0.1800           | 0.5605 |
| 0.2200         | 0.6186 | 0.2100           | 0.6347 |
| 0.2700         | 0.6843 | 0.2700           | 0.7165 |
| 0.3200         | 0.7432 | 0.3100           | 0.7841 |
| 0.3600         | 0.7942 | 0.3700           | 0.8464 |
| 0.4100         | 0.8408 | 0.4200           | 0.8961 |
| 0.5100         | 0.9208 | 0.5300           | 0.9704 |
| 0.7200         | 1.0122 | 0.7300           | 1.0007 |
| 0.9100         | 1.0167 | 0.9400           | 1.0009 |
| 1.1100         | 1.0179 | 1.1500           | 0.9997 |
| 1.3000         | 1.0172 | 1.3500           | 0.9982 |
| 1.5300         | 0.8514 | 1.5500           | 1.0004 |
| 1.7400         | 1.0175 | 1.7500           | 0.9999 |
| 1.9400         | 1.0166 | 1.9500           | 1.0011 |
| 2.1400         | 1.0168 | 2.1600           | 0.9994 |
| 2.3500         | 1.0171 | 2.3700           | 1.0000 |
| 2.5500         | 1.0165 | 2.5800           | 0.9997 |

Flight 21 Test point 1

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 34800. Angle of attack, deg = 5.1  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 172.5 Rrho = 1674000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 1.0133                     | 0.2455                      | 0.1295                  | 0.3 x/c          |
| Outboard station rake | 0.8992                     | 0.2023                      | 0.1041                  | 0.3 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5232             | 0.0400           | 0.5412             |
| 0.0500         | 0.5427             | 0.0700           | 0.5719             |
| 0.1100         | 0.5887             | 0.1200           | 0.6253             |
| 0.1700         | 0.6393             | 0.1800           | 0.6705             |
| 0.2200         | 0.6538             | 0.2100           | 0.6840             |
| 0.2700         | 0.6959             | 0.2700           | 0.7274             |
| 0.3200         | 0.7160             | 0.3100           | 0.7707             |
| 0.3600         | 0.7445             | 0.3700           | 0.7965             |
| 0.4100         | 0.7712             | 0.4200           | 0.8284             |
| 0.5100         | 0.8178             | 0.5300           | 0.8773             |
| 0.7200         | 0.9191             | 0.7300           | 0.9775             |
| 0.9100         | 0.9738             | 0.9400           | 1.0049             |
| 1.1100         | 1.0032             | 1.1500           | 0.9967             |
| 1.3000         | 1.0047             | 1.3500           | 0.9902             |
| 1.5300         | 1.0076             | 1.5500           | 1.0014             |
| 1.7400         | 1.0016             | 1.7500           | 0.9984             |
| 1.9400         | 1.0018             | 1.9500           | 1.0032             |
| 2.1400         | 1.0040             | 2.1600           | 0.9993             |
| 2.3500         | 1.0022             | 2.3700           | 1.0001             |
| 2.5500         | 1.0011             | 2.5800           | 1.0059             |

Flight 21 Test point 2

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 35000. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 172.2 Rrho = 1669000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7332                     | 0.1510                      | 0.0806                  | 0.3 x/c          |
| Outboard station rake | 0.4441                     | 0.1041                      | 0.0505                  | 0.3 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5647             | 0.0400           | 0.6071             |
| 0.0500         | 0.5839             | 0.0700           | 0.6440             |
| 0.1100         | 0.6475             | 0.1200           | 0.7275             |
| 0.1700         | 0.7075             | 0.1800           | 0.7862             |
| 0.2200         | 0.7435             | 0.2100           | 0.8251             |
| 0.2700         | 0.7880             | 0.2700           | 0.8852             |
| 0.3200         | 0.8253             | 0.3100           | 0.9292             |
| 0.3600         | 0.8640             | 0.3700           | 0.9631             |
| 0.4100         | 0.8955             | 0.4200           | 0.9888             |
| 0.5100         | 0.9515             | 0.5300           | 1.0028             |
| 0.7200         | 0.9975             | 0.7300           | 1.0020             |
| 0.9100         | 0.9972             | 0.9400           | 1.0055             |
| 1.1100         | 1.0006             | 1.1500           | 0.9976             |
| 1.3000         | 1.0018             | 1.3500           | 0.9920             |
| 1.5300         | 1.0029             | 1.5500           | 1.0036             |
| 1.7400         | 0.9994             | 1.7500           | 1.0014             |
| 1.9400         | 1.0018             | 1.9500           | 1.0047             |
| 2.1400         | 1.0014             | 2.1600           | 0.9981             |
| 2.3500         | 0.9984             | 2.3700           | 0.9984             |
| 2.5500         | 0.9989             | 2.5800           | 1.0050             |

Flight 21 Test point 3

Sweep, deg = 34.9 Mach = 0.71 hp, ft = 34300. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 182.1 Rrho = 1740000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5020                     | 0.1189                      | 0.0610                  | 0.3 x/c          |
| Outboard station rake | 0.4419                     | 0.1031                      | 0.0493                  | 0.3 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5809             | 0.0400           | 0.6139             |
| 0.0500         | 0.6058             | 0.0700           | 0.6471             |
| 0.1100         | 0.6821             | 0.1200           | 0.7264             |
| 0.1700         | 0.7556             | 0.1800           | 0.7873             |
| 0.2200         | 0.7963             | 0.2100           | 0.8357             |
| 0.2700         | 0.8437             | 0.2700           | 0.8926             |
| 0.3200         | 0.8846             | 0.3100           | 0.9354             |
| 0.3600         | 0.9244             | 0.3700           | 0.9671             |
| 0.4100         | 0.9533             | 0.4200           | 0.9932             |
| 0.5100         | 0.9906             | 0.5300           | 0.9988             |
| 0.7200         | 1.0021             | 0.7300           | 1.0024             |
| 0.9100         | 0.9992             | 0.9400           | 1.0052             |
| 1.1100         | 1.0012             | 1.1500           | 0.9970             |
| 1.3000         | 1.0011             | 1.3500           | 0.9930             |
| 1.5300         | 1.0054             | 1.5500           | 1.0012             |
| 1.7400         | 1.0008             | 1.7500           | 1.0017             |
| 1.9400         | 1.0005             | 1.9500           | 1.0047             |
| 2.1400         | 1.0015             | 2.1600           | 0.9993             |
| 2.3500         | 0.9999             | 2.3700           | 0.9994             |
| 2.5500         | 0.9978             | 2.5800           | 1.0040             |

Flight 21 Test point 4

Sweep, deg = 29.7 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 4.2  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 172.6 Rrho = 1677000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9618                     | 0.2174                      | 0.1106                  | 0.3 x/c          |
| Outboard station rake | 0.7377                     | 0.1904                      | 0.0921                  | 0.3 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4925             | 0.0400           | 0.4657             |
| 0.0500         | 0.5164             | 0.0700           | 0.5255             |
| 0.1100         | 0.5758             | 0.1200           | 0.5971             |
| 0.1700         | 0.6283             | 0.1800           | 0.6532             |
| 0.2200         | 0.6552             | 0.2100           | 0.6835             |
| 0.2700         | 0.6991             | 0.2700           | 0.7338             |
| 0.3200         | 0.7285             | 0.3100           | 0.7833             |
| 0.3600         | 0.7719             | 0.3700           | 0.8179             |
| 0.4100         | 0.7993             | 0.4200           | 0.8562             |
| 0.5100         | 0.8645             | 0.5300           | 0.9284             |
| 0.7200         | 0.9736             | 0.7300           | 0.9976             |
| 0.9100         | 0.9949             | 0.9400           | 1.0036             |
| 1.1100         | 0.9998             | 1.1500           | 0.9974             |
| 1.3000         | 1.0015             | 1.3500           | 0.9907             |
| 1.5300         | 1.0033             | 1.5500           | 1.0007             |
| 1.7400         | 1.0001             | 1.7500           | 1.0018             |
| 1.9400         | 0.9991             | 1.9500           | 1.0023             |
| 2.1400         | 1.0012             | 2.1600           | 1.0004             |
| 2.3500         | 0.9999             | 2.3700           | 1.0018             |
| 2.5500         | 1.0002             | 2.5800           | 1.0037             |

Flight 21 Test point 5

Sweep, deg = 29.7 Mach = 0.71 hp, ft = 35300, Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 174.1 Rrho = 1672000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4854                     | 0.1209                      | 0.0611                  | 0.3 x/c          |
| Outboard station rake | 0.3833                     | 0.1021                      | 0.0473                  | 0.3 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5645             | 0.0400           | 0.5798             |
| 0.0500         | 0.5991             | 0.0700           | 0.6196             |
| 0.1100         | 0.6660             | 0.1200           | 0.7145             |
| 0.1700         | 0.7391             | 0.1800           | 0.7807             |
| 0.2200         | 0.7791             | 0.2100           | 0.8290             |
| 0.2700         | 0.8393             | 0.2700           | 0.9024             |
| 0.3200         | 0.8867             | 0.3100           | 0.9533             |
| 0.3600         | 0.9327             | 0.3700           | 0.9827             |
| 0.4100         | 0.9614             | 0.4200           | 1.0010             |
| 0.5100         | 0.9936             | 0.5300           | 1.0008             |
| 0.7200         | 1.0001             | 0.7300           | 1.0035             |
| 0.9100         | 0.9958             | 0.9400           | 1.0047             |
| 1.1100         | 0.9995             | 1.1500           | 0.9982             |
| 1.3000         | 1.0041             | 1.3500           | 0.9912             |
| 1.5300         | 1.0041             | 1.5500           | 1.0029             |
| 1.7400         | 1.0011             | 1.7500           | 1.0032             |
| 1.9400         | 1.0013             | 1.9500           | 1.0048             |
| 2.1400         | 1.0009             | 2.1600           | 1.0004             |
| 2.3500         | 1.0003             | 2.3700           | 1.0034             |
| 2.5500         | 0.9992             | 2.5800           | 1.0034             |

Flight 21 Test point 6

Sweep, deg = 29.7 Mach = 0.70 hp, ft = 36100. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 160.7 Rrho = 1576000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4322                     | 0.1155                      | 0.0574                  | 0.3 x/c          |
| Outboard station rake | 0.3852                     | 0.1014                      | 0.0468                  | 0.3 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5614             | 0.0400           | 0.5696             |
| 0.0500         | 0.5930             | 0.0700           | 0.6241             |
| 0.1100         | 0.6543             | 0.1200           | 0.7120             |
| 0.1700         | 0.7307             | 0.1800           | 0.7875             |
| 0.2200         | 0.7912             | 0.2100           | 0.8413             |
| 0.2700         | 0.8547             | 0.2700           | 0.9045             |
| 0.3200         | 0.9071             | 0.3100           | 0.9533             |
| 0.3600         | 0.9535             | 0.3700           | 0.9822             |
| 0.4100         | 0.9772             | 0.4200           | 1.0028             |
| 0.5100         | 0.9964             | 0.5300           | 0.9992             |
| 0.7200         | 1.0030             | 0.7300           | 1.0009             |
| 0.9100         | 0.9989             | 0.9400           | 1.0064             |
| 1.1100         | 1.0013             | 1.1500           | 0.9973             |
| 1.3000         | 1.0033             | 1.3500           | 0.9882             |
| 1.5300         | 1.0060             | 1.5500           | 1.0050             |
| 1.7400         | 1.0035             | 1.7500           | 1.0041             |
| 1.9400         | 1.0012             | 1.9500           | 1.0062             |
| 2.1400         | 1.0031             | 2.1600           | 0.9987             |
| 2.3500         | 1.0021             | 2.3700           | 1.0030             |
| 2.5500         | 1.0039             | 2.5800           | 1.0060             |

Flight 21 Test point 7

Sweep, deg = 24.8 Mach = 0.71 hp, ft = 35000. Angle of attack, deg = 3.2  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 174.0 Rrho = 1685000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 1.0108                     | 0.2121                      | 0.1023                  | 0.3 x/c          |
| Outboard station rake | 0.5543                     | 0.1722                      | 0.0684                  | 0.3 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3705             | 0.0400           | 0.1716             |
| 0.0500         | 0.4574             | 0.0700           | 0.4164             |
| 0.1100         | 0.5516             | 0.1200           | 0.5795             |
| 0.1700         | 0.6211             | 0.1800           | 0.6674             |
| 0.2200         | 0.6540             | 0.2100           | 0.7129             |
| 0.2700         | 0.7060             | 0.2700           | 0.7872             |
| 0.3200         | 0.7391             | 0.3100           | 0.8415             |
| 0.3600         | 0.7833             | 0.3700           | 0.8870             |
| 0.4100         | 0.8177             | 0.4200           | 0.9314             |
| 0.5100         | 0.8874             | 0.5300           | 0.9886             |
| 0.7200         | 0.9930             | 0.7300           | 1.0030             |
| 0.9100         | 0.9978             | 0.9400           | 1.0045             |
| 1.1100         | 1.0009             | 1.1500           | 0.9969             |
| 1.3000         | 0.9987             | 1.3500           | 0.9923             |
| 1.5300         | 1.0026             | 1.5500           | 1.0041             |
| 1.7400         | 0.9995             | 1.7500           | 1.0026             |
| 1.9400         | 0.9999             | 1.9500           | 1.0053             |
| 2.1400         | 1.0026             | 2.1600           | 1.0006             |
| 2.3500         | 0.9992             | 2.3700           | 1.0017             |
| 2.5500         | 0.9987             | 2.5800           | 1.0005             |



Flight 21 Test point 8

Sweep, deg = 24.7 Mach = 0.72 hp, ft = 35000. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 178.1 Rrho = 1707000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5060                     | 0.1366                      | 0.0650                  | 0.3 x/c          |
| Outboard station rake | 0.4163                     | 0.1258                      | 0.0530                  | 0.3 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4412             | 0.0400           | 0.3730             |
| 0.0500         | 0.5225             | 0.0700           | 0.5209             |
| 0.1100         | 0.6157             | 0.1200           | 0.6567             |
| 0.1700         | 0.7080             | 0.1800           | 0.7446             |
| 0.2200         | 0.7624             | 0.2100           | 0.7974             |
| 0.2700         | 0.8248             | 0.2700           | 0.8692             |
| 0.3200         | 0.8759             | 0.3100           | 0.9275             |
| 0.3600         | 0.9234             | 0.3700           | 0.9704             |
| 0.4100         | 0.9519             | 0.4200           | 0.9996             |
| 0.5100         | 0.9911             | 0.5300           | 1.0027             |
| 0.7200         | 1.0034             | 0.7300           | 1.0041             |
| 0.9100         | 0.9997             | 0.9400           | 1.0059             |
| 1.1100         | 1.0018             | 1.1500           | 0.9995             |
| 1.3000         | 1.0003             | 1.3500           | 0.9939             |
| 1.5300         | 1.0018             | 1.5500           | 1.0032             |
| 1.7400         | 1.0014             | 1.7500           | 1.0041             |
| 1.9400         | 0.9993             | 1.9500           | 1.0068             |
| 2.1400         | 1.0028             | 2.1600           | 1.0012             |
| 2.3500         | 1.0007             | 2.3700           | 1.0029             |
| 2.5500         | 0.9976             | 2.5800           | 1.0057             |

Flight 21 Test point 9

Sweep, deg = 24.6 Mach = 0.71 hp, ft = 35300. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 170.2 Rrho = 1653000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5205                     | 0.1367                      | 0.0653                  | 0.3 x/c          |
| Outboard station rake | 0.4210                     | 0.1259                      | 0.0536                  | 0.3 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4406             | 0.0400           | 0.3899             |
| 0.0500         | 0.5205             | 0.0700           | 0.5218             |
| 0.1100         | 0.6198             | 0.1200           | 0.6544             |
| 0.1700         | 0.7114             | 0.1800           | 0.7446             |
| 0.2200         | 0.7635             | 0.2100           | 0.7926             |
| 0.2700         | 0.8332             | 0.2700           | 0.8683             |
| 0.3200         | 0.8771             | 0.3100           | 0.9265             |
| 0.3600         | 0.9210             | 0.3700           | 0.9683             |
| 0.4100         | 0.9481             | 0.4200           | 0.9975             |
| 0.5100         | 0.9901             | 0.5300           | 1.0041             |
| 0.7200         | 0.9982             | 0.7300           | 1.0055             |
| 0.9100         | 0.9982             | 0.9400           | 1.0058             |
| 1.1100         | 1.0027             | 1.1500           | 0.9980             |
| 1.3000         | 1.0011             | 1.3500           | 0.9957             |
| 1.5300         | 1.0027             | 1.5500           | 1.0053             |
| 1.7400         | 1.0015             | 1.7500           | 1.0016             |
| 1.9400         | 1.0032             | 1.9500           | 1.0063             |
| 2.1400         | 1.0025             | 2.1600           | 1.0038             |
| 2.3500         | 1.0001             | 2.3700           | 1.0018             |
| 2.5500         | 0.9997             | 2.5800           | 1.0061             |

Flight 21 Test point 10

Sweep, deg = 20.1 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 3.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 173.5 Rrho = 1683000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7232                     | 0.2103                      | 0.0884                  | 0.3 x/c          |
| Outboard station rake | 0.7254                     | 0.2187                      | 0.0910                  | 0.3 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3154             | 0.0400           | 0.5454             |
| 0.0500         | 0.1967             | 0.0700           | 0.3550             |
| 0.1100         | 0.4774             | 0.1200           | 0.3497             |
| 0.1700         | 0.6038             | 0.1800           | 0.5341             |
| 0.2200         | 0.6648             | 0.2100           | 0.5967             |
| 0.2700         | 0.7237             | 0.2700           | 0.6928             |
| 0.3200         | 0.7695             | 0.3100           | 0.7552             |
| 0.3600         | 0.8199             | 0.3700           | 0.8049             |
| 0.4100         | 0.8545             | 0.4200           | 0.8584             |
| 0.5100         | 0.9286             | 0.5300           | 0.9423             |
| 0.7200         | 0.9991             | 0.7300           | 1.0012             |
| 0.9100         | 0.9976             | 0.9400           | 1.0049             |
| 1.1100         | 1.0010             | 1.1500           | 0.9968             |
| 1.3000         | 0.9992             | 1.3500           | 0.9915             |
| 1.5300         | 1.0037             | 1.5500           | 1.0008             |
| 1.7400         | 1.0015             | 1.7500           | 0.9995             |
| 1.9400         | 1.0008             | 1.9500           | 1.0032             |
| 2.1400         | 1.0008             | 2.1600           | 1.0016             |
| 2.3500         | 0.9972             | 2.3700           | 0.9987             |
| 2.5500         | 0.9990             | 2.5800           | 1.0018             |

Flight 21 Test point 11

Sweep, deg = 20.1 Mach = 0.70 hp, ft = 34800. Angle of attack, deg = 3.7  
 Angle of sideslip, deg = -5.3 QBAR, lb/ft<sup>2</sup> = 171.4 Rrho = 1672000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7254                     | 0.2273                      | 0.0864                  | 0.3 x/c          |
| Outboard station rake | 0.7306                     | 0.2204                      | 0.0886                  | 0.3 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.6585             | 0.0400           | 0.8196             |
| 0.0500         | 0.4952             | 0.0700           | 0.7151             |
| 0.1100         | 0.0814             | 0.1200           | 0.4550             |
| 0.1700         | 0.4906             | 0.1800           | 0.1715             |
| 0.2200         | 0.6006             | 0.2100           | 0.4519             |
| 0.2700         | 0.6811             | 0.2700           | 0.6099             |
| 0.3200         | 0.7470             | 0.3100           | 0.7106             |
| 0.3600         | 0.8011             | 0.3700           | 0.7811             |
| 0.4100         | 0.8444             | 0.4200           | 0.8457             |
| 0.5100         | 0.9261             | 0.5300           | 0.9365             |
| 0.7200         | 0.9984             | 0.7300           | 0.9998             |
| 0.9100         | 0.9980             | 0.9400           | 1.0030             |
| 1.1100         | 0.9990             | 1.1500           | 0.9924             |
| 1.3000         | 0.9998             | 1.3500           | 0.9931             |
| 1.5300         | 1.0028             | 1.5500           | 1.0017             |
| 1.7400         | 1.0002             | 1.7500           | 1.0017             |
| 1.9400         | 1.0009             | 1.9500           | 1.0037             |
| 2.1400         | 1.0016             | 2.1600           | 1.0029             |
| 2.3500         | 0.9987             | 2.3700           | 0.9993             |
| 2.5500         | 1.0006             | 2.5800           | 1.0024             |

Flight 21 Test point 12

Sweep, deg = 20.0 Mach = 0.72 hp, ft = 34600. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 181.8 Rrho = 1736000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5356                     | 0.1698                      | 0.0696                  | 0.3 x/c          |
| Outboard station rake | 0.4402                     | 0.1622                      | 0.0554                  | 0.3 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2360             | 0.0400           | 0.4456             |
| 0.0500         | 0.2965             | 0.0700           | 0.0736             |
| 0.1100         | 0.5215             | 0.1200           | 0.5193             |
| 0.1700         | 0.6511             | 0.1800           | 0.6658             |
| 0.2700         | 0.7201             | 0.2100           | 0.7366             |
| 0.2700         | 0.7821             | 0.2700           | 0.8231             |
| 0.3200         | 0.8382             | 0.3100           | 0.8864             |
| 0.3600         | 0.8921             | 0.3700           | 0.9386             |
| 0.4100         | 0.9309             | 0.4200           | 0.9830             |
| 0.5100         | 0.9870             | 0.5300           | 0.9992             |
| 0.7200         | 1.0003             | 0.7300           | 1.0028             |
| 0.9100         | 0.9981             | 0.9400           | 1.0039             |
| 1.1100         | 1.0036             | 1.1500           | 0.9927             |
| 1.3000         | 1.0012             | 1.3500           | 0.9937             |
| 1.5300         | 1.0038             | 1.5500           | 1.0061             |
| 1.7400         | 1.0014             | 1.7500           | 1.0035             |
| 1.9400         | 1.0013             | 1.9500           | 1.0049             |
| 2.1400         | 1.0038             | 2.1600           | 1.0009             |
| 2.3500         | 0.9991             | 2.3700           | 1.0031             |
| 2.5500         | 1.0004             | 2.5800           | 1.0061             |

Flight 21 Test point 13

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 35000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 171.2 Rrho = 1666000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5317                     | 0.1679                      | 0.0694                  | 0.3 x/c          |
| Outboard station rake | 0.4491                     | 0.1646                      | 0.0537                  | 0.3 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.2632 | 0.0400           | 0.4568 |
| 0.0500         | 0.2853 | 0.0700           | 0.0092 |
| 0.1100         | 0.5315 | 0.1200           | 0.5184 |
| 0.1700         | 0.6576 | 0.1800           | 0.6674 |
| 0.2200         | 0.7260 | 0.2100           | 0.7352 |
| 0.2700         | 0.7869 | 0.2700           | 0.8192 |
| 0.3200         | 0.8390 | 0.3100           | 0.8891 |
| 0.3600         | 0.8890 | 0.3700           | 0.9381 |
| 0.4100         | 0.9307 | 0.4200           | 0.9781 |
| 0.5100         | 0.9885 | 0.5300           | 0.9985 |
| 0.7200         | 1.0012 | 0.7300           | 1.0041 |
| 0.9100         | 1.0002 | 0.9400           | 1.0077 |
| 1.1100         | 1.0007 | 1.1500           | 0.9943 |
| 1.3000         | 0.9987 | 1.3500           | 0.9944 |
| 1.5300         | 1.0050 | 1.5500           | 1.0041 |
| 1.7400         | 1.0014 | 1.7500           | 1.0021 |
| 1.9400         | 1.0002 | 1.9500           | 1.0053 |
| 2.1400         | 1.0031 | 2.1600           | 1.0024 |
| 2.3500         | 0.9980 | 2.3700           | 1.0047 |
| 2.5500         | 1.0020 | 2.5800           | 1.0042 |

Flight 21 Test point 14

Sweep, deg = 34.9 Mach = 0.80 hp, ft = 34900. Angle of attack, deg = 2.9  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 224.4 Rrho = 1943000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9393                     | 0.2891                      | 0.1311                  | 0.3 x/c          |
| Outboard station rake | 0.8146                     | 0.2516                      | 0.1109                  | 0.3 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4259             | 0.0400           | 0.4389             |
| 0.0500         | 0.4525             | 0.0700           | 0.4644             |
| 0.1100         | 0.4853             | 0.1200           | 0.5079             |
| 0.1700         | 0.5235             | 0.1800           | 0.5520             |
| 0.2200         | 0.5543             | 0.2100           | 0.5778             |
| 0.2700         | 0.5974             | 0.2700           | 0.6282             |
| 0.3200         | 0.6306             | 0.3100           | 0.6718             |
| 0.3600         | 0.6751             | 0.3700           | 0.7141             |
| 0.4100         | 0.7085             | 0.4200           | 0.7677             |
| 0.5100         | 0.7845             | 0.5300           | 0.8610             |
| 0.7200         | 0.9367             | 0.7300           | 0.9946             |
| 0.9100         | 0.9922             | 0.9400           | 1.0070             |
| 1.1100         | 0.9999             | 1.1500           | 0.9980             |
| 1.3000         | 1.0024             | 1.3500           | 0.9942             |
| 1.5300         | 1.0042             | 1.5500           | 1.0038             |
| 1.7400         | 1.0005             | 1.7500           | 1.0014             |
| 1.9400         | 1.0018             | 1.9500           | 1.0007             |
| 2.1400         | 1.0011             | 2.1600           | 0.9971             |
| 2.3500         | 0.9985             | 2.3700           | 0.9981             |
| 2.5500         | 0.9993             | 2.5800           | 0.9995             |

Flight 21 Test point 15

Sweep, deg = 34.9 Mach = 0.80 hp, ft = 34600. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.4 QBAR, lb/ft<sup>2</sup> = 229.1 Rrho = 1976000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9934                     | 0.2079                      | 0.1025                  | 0.3 x/c          |
| Outboard station rake | 0.7199                     | 0.1715                      | 0.0810                  | 0.3 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5040             | 0.0400           | 0.5114             |
| 0.0500         | 0.5290             | 0.0700           | 0.5484             |
| 0.1100         | 0.5744             | 0.1200           | 0.6140             |
| 0.1700         | 0.6310             | 0.1800           | 0.6604             |
| 0.2200         | 0.6610             | 0.2100           | 0.6973             |
| 0.2700         | 0.7088             | 0.2700           | 0.7634             |
| 0.3200         | 0.7466             | 0.3100           | 0.8090             |
| 0.3600         | 0.7875             | 0.3700           | 0.8541             |
| 0.4100         | 0.8185             | 0.4200           | 0.8990             |
| 0.5100         | 0.8861             | 0.5300           | 0.9636             |
| 0.7200         | 0.9888             | 0.7300           | 1.0017             |
| 0.9100         | 0.9969             | 0.9400           | 1.0023             |
| 1.1100         | 1.0004             | 1.1500           | 0.9955             |
| 1.3000         | 1.0002             | 1.3500           | 0.9922             |
| 1.5300         | 1.0030             | 1.5500           | 1.0027             |
| 1.7400         | 1.0021             | 1.7500           | 1.0021             |
| 1.9400         | 0.9990             | 1.9500           | 1.0031             |
| 2.1400         | 1.0004             | 2.1600           | 0.9999             |
| 2.3500         | 0.9991             | 2.3700           | 0.9991             |
| 2.5500         | 0.9990             | 2.5800           | 1.0014             |



Flight 21 Test point 16

Sweep, deg = 34.9 Mach = 0.80 hp, ft = 35300. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 218.7 Rnpu = 1903000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9567                     | 0.2124                      | 0.1043                  | 0.3 x/c          |
| Outboard station rake | 0.7164                     | 0.1752                      | 0.0820                  | 0.3 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4917             | 0.0400           | 0.5084             |
| 0.0500         | 0.5138             | 0.0700           | 0.5446             |
| 0.1100         | 0.5725             | 0.1200           | 0.6047             |
| 0.1700         | 0.6202             | 0.1800           | 0.6509             |
| 0.2200         | 0.6523             | 0.2100           | 0.6903             |
| 0.2700         | 0.7042             | 0.2700           | 0.7475             |
| 0.3200         | 0.7388             | 0.3100           | 0.7947             |
| 0.3600         | 0.7796             | 0.3700           | 0.8444             |
| 0.4100         | 0.8096             | 0.4200           | 0.8926             |
| 0.5100         | 0.8805             | 0.5300           | 0.9685             |
| 0.7200         | 0.9872             | 0.7300           | 1.0020             |
| 0.9100         | 0.9977             | 0.9400           | 1.0048             |
| 1.1100         | 1.0006             | 1.1500           | 0.9934             |
| 1.3000         | 1.0008             | 1.3500           | 0.9926             |
| 1.5300         | 1.0013             | 1.5500           | 1.0004             |
| 1.7400         | 0.9997             | 1.7500           | 1.0027             |
| 1.9400         | 0.9999             | 1.9500           | 1.0028             |
| 2.1400         | 1.0008             | 2.1600           | 1.0005             |
| 2.3500         | 0.9998             | 2.3700           | 0.9987             |
| 2.5500         | 0.9993             | 2.5800           | 1.0023             |

Flight 21 Test point 17

Sweep, deg = 30.0 Mach = 0.80 hp, ft = 34900. Angle of attack, deg = 2.2  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 224.7 Rrho = 1944000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7098                     | 0.2789                      | 0.0991                  | 0.3 x/c          |
| Outboard station rake | 0.5341                     | 0.2324                      | 0.0687                  | 0.3 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2874             | 0.0400           | 0.1747             |
| 0.0500         | 0.2833             | 0.0700           | 0.1954             |
| 0.1100         | 0.3294             | 0.1200           | 0.3505             |
| 0.1700         | 0.3874             | 0.1800           | 0.4419             |
| 0.2200         | 0.4406             | 0.2100           | 0.5330             |
| 0.2700         | 0.5259             | 0.2700           | 0.6579             |
| 0.3200         | 0.6075             | 0.3100           | 0.7640             |
| 0.3600         | 0.6824             | 0.3700           | 0.8558             |
| 0.4100         | 0.7685             | 0.4200           | 0.9207             |
| 0.5100         | 0.9053             | 0.5300           | 0.9974             |
| 0.7200         | 1.0043             | 0.7300           | 1.0047             |
| 0.9100         | 1.0011             | 0.9400           | 1.0073             |
| 1.1100         | 1.0041             | 1.1500           | 1.0007             |
| 1.3000         | 1.0036             | 1.3500           | 0.9989             |
| 1.5300         | 1.0030             | 1.5500           | 1.0035             |
| 1.7400         | 1.0005             | 1.7500           | 1.0034             |
| 1.9400         | 1.0022             | 1.9500           | 1.0046             |
| 2.1400         | 0.9957             | 2.1600           | 0.9952             |
| 2.3500         | 0.9931             | 2.3700           | 0.9916             |
| 2.5500         | 0.9922             | 2.5800           | 0.9928             |

Flight 21 Test point 18

Sweep, deg = 29.7 Mach = 0.81 hp, ft = 34600, Angle of attack, deg = 0.4  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 230.3 Rrho = 1980000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9722                     | 0.2429                      | 0.1076                  | 0.3 x/c          |
| Outboard station rake | 0.6952                     | 0.1959                      | 0.0819                  | 0.3 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4059             | 0.0400           | 0.3686             |
| 0.0500         | 0.4332             | 0.0700           | 0.4278             |
| 0.1100         | 0.4811             | 0.1200           | 0.5143             |
| 0.1700         | 0.5324             | 0.1800           | 0.5809             |
| 0.2200         | 0.5718             | 0.2100           | 0.6268             |
| 0.2700         | 0.6242             | 0.2700           | 0.7043             |
| 0.3200         | 0.6719             | 0.3100           | 0.7672             |
| 0.3600         | 0.7318             | 0.3700           | 0.8373             |
| 0.4100         | 0.7788             | 0.4200           | 0.8989             |
| 0.5100         | 0.8763             | 0.5300           | 0.9823             |
| 0.7200         | 0.9957             | 0.7300           | 1.0032             |
| 0.9100         | 0.9991             | 0.9400           | 1.0040             |
| 1.1100         | 1.0011             | 1.1500           | 0.9980             |
| 1.3000         | 1.0006             | 1.3500           | 0.9951             |
| 1.5300         | 1.0003             | 1.5500           | 1.0028             |
| 1.7400         | 1.0006             | 1.7500           | 1.0000             |
| 1.9400         | 0.9999             | 1.9500           | 1.0013             |
| 2.1400         | 1.0005             | 2.1600           | 0.9989             |
| 2.3500         | 0.9992             | 2.3700           | 0.9978             |
| 2.5500         | 0.9988             | 2.5800           | 0.9990             |

Flight 21 Test point 19

Sweep, deg = 29.7 Mach = 0.80 hp, ft = 34900. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 224.2 Rrho = 1942000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.8327                     | 0.2398                      | 0.1033                  | 0.3 x/c          |
| Outboard station rake | 0.5277                     | 0.2116                      | 0.0741                  | 0.3 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3829             | 0.0400           | 0.2038             |
| 0.0500         | 0.4133             | 0.0700           | 0.2933             |
| 0.1100         | 0.4635             | 0.1200           | 0.4217             |
| 0.1700         | 0.5200             | 0.1800           | 0.5054             |
| 0.2200         | 0.5651             | 0.2100           | 0.5746             |
| 0.2700         | 0.6279             | 0.2700           | 0.6692             |
| 0.3200         | 0.6775             | 0.3100           | 0.7652             |
| 0.3600         | 0.7412             | 0.3700           | 0.8495             |
| 0.4100         | 0.7904             | 0.4200           | 0.9276             |
| 0.5100         | 0.8935             | 0.5300           | 1.0014             |
| 0.7200         | 1.0015             | 0.7300           | 1.0055             |
| 0.9100         | 0.9991             | 0.9400           | 1.0061             |
| 1.1100         | 1.0016             | 1.1500           | 0.9995             |
| 1.3000         | 1.0005             | 1.3500           | 0.9961             |
| 1.5300         | 1.0025             | 1.5500           | 1.0015             |
| 1.7400         | 1.0005             | 1.7500           | 1.0022             |
| 1.9400         | 0.9996             | 1.9500           | 1.0000             |
| 2.1400         | 0.9980             | 2.1600           | 0.9968             |
| 2.3500         | 0.9979             | 2.3700           | 0.9948             |
| 2.5500         | 0.9989             | 2.5800           | 0.9960             |

Flight 21 Test point 20

Sweep, deg = 24.9 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 223.2 Rnpu = 1936000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6905                     | 0.2660                      | 0.0759                  | 0.3 x/c          |
| Outboard station rake | 0.6475                     | 0.2565                      | 0.0720                  | 0.3 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3813             | 0.0400           | 0.2526             |
| 0.0500         | 0.3289             | 0.0700           | 0.2235             |
| 0.1100         | 0.1076             | 0.1200           | 0.2151             |
| 0.1700         | 0.3408             | 0.1800           | 0.3450             |
| 0.2200         | 0.4725             | 0.2100           | 0.4445             |
| 0.2700         | 0.5837             | 0.2700           | 0.5893             |
| 0.3200         | 0.6842             | 0.3100           | 0.7051             |
| 0.3600         | 0.7719             | 0.3700           | 0.8148             |
| 0.4100         | 0.8505             | 0.4200           | 0.8934             |
| 0.5100         | 0.9694             | 0.5300           | 0.9911             |
| 0.7200         | 1.0043             | 0.7300           | 1.0054             |
| 0.9100         | 1.0041             | 0.9400           | 1.0051             |
| 1.1100         | 1.0053             | 1.1500           | 1.0025             |
| 1.3000         | 1.0040             | 1.3500           | 0.9982             |
| 1.5300         | 1.0058             | 1.5500           | 1.0035             |
| 1.7400         | 1.0044             | 1.7500           | 1.0027             |
| 1.9400         | 1.0033             | 1.9500           | 1.0036             |
| 2.1400         | 0.9932             | 2.1600           | 0.9966             |
| 2.3500         | 0.9875             | 2.3700           | 0.9944             |
| 2.5500         | 0.9880             | 2.5800           | 0.9895             |

Flight 21 Test point 21

Sweep, deg = 24.9 Mach = 0.80 hp, ft = 34700. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 226.4 R<sub>pu</sub> = 1960000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7182                     | 0.2808                      | 0.0822                  | 0.3 x/c          |
| Outboard station rake | 0.5331                     | 0.2211                      | 0.0698                  | 0.3 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.0418             | 0.0400           | 0.4321             |
| 0.0500         | 0.1104             | 0.0700           | 0.3550             |
| 0.1100         | 0.2478             | 0.1200           | 0.2082             |
| 0.1700         | 0.3663             | 0.1800           | 0.4395             |
| 0.2200         | 0.4427             | 0.2100           | 0.5492             |
| 0.2700         | 0.5414             | 0.2700           | 0.6816             |
| 0.3200         | 0.6391             | 0.3100           | 0.7747             |
| 0.3600         | 0.7263             | 0.3700           | 0.8615             |
| 0.4100         | 0.8148             | 0.4200           | 0.9329             |
| 0.5100         | 0.9455             | 0.5300           | 0.9983             |
| 0.7200         | 1.0004             | 0.7300           | 1.0013             |
| 0.9100         | 0.9999             | 0.9400           | 1.0037             |
| 1.1100         | 1.0017             | 1.1500           | 0.9974             |
| 1.3000         | 1.0004             | 1.3500           | 0.9964             |
| 1.5300         | 1.0031             | 1.5500           | 1.0025             |
| 1.7400         | 1.0025             | 1.7500           | 1.0012             |
| 1.9400         | 1.0017             | 1.9500           | 1.0024             |
| 2.1400         | 0.9989             | 2.1600           | 1.0009             |
| 2.3500         | 0.9953             | 2.3700           | 0.9971             |
| 2.5500         | 0.9960             | 2.5800           | 0.9988             |

Flight 21 Test point 22

Sweep, deg = 24.9 Mach = 0.80 hp, ft = 35100. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 218.6 Rrho = 1903000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | 0.7119                        | 0.2889                         | 0.0820                     | 0.3 x/c             |
| Outboard station rake | 0.5369                        | 0.2279                         | 0.0703                     | 0.3 x/c             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1384             | 0.0400           | 0.4203             |
| 0.0500         | 0.1198             | 0.0700           | 0.3588             |
| 0.1100         | 0.2024             | 0.1200           | 0.2042             |
| 0.1700         | 0.3379             | 0.1800           | 0.4212             |
| 0.2200         | 0.4261             | 0.2100           | 0.5315             |
| 0.2700         | 0.5297             | 0.2700           | 0.6592             |
| 0.3200         | 0.6211             | 0.3100           | 0.7624             |
| 0.3600         | 0.7228             | 0.3700           | 0.8553             |
| 0.4100         | 0.8119             | 0.4200           | 0.9259             |
| 0.5100         | 0.8390             | 0.5300           | 0.9960             |
| 0.7200         | 1.0021             | 0.7300           | 1.0034             |
| 0.9100         | 1.0009             | 0.9400           | 1.0042             |
| 1.1100         | 1.0024             | 1.1500           | 0.9970             |
| 1.3000         | 1.0015             | 1.3500           | 0.9976             |
| 1.5300         | 1.0047             | 1.5500           | 1.0034             |
| 1.7400         | 1.0017             | 1.7500           | 1.0017             |
| 1.9400         | 1.0002             | 1.9500           | 1.0042             |
| 2.1400         | 1.0005             | 2.1600           | 0.9993             |
| 2.3500         | 0.9925             | 2.3700           | 0.9977             |
| 2.5500         | 0.9934             | 2.5800           | 0.9953             |

Flight 21 Test point 23

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 224.6 Rrho = 1940000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7608                     | 0.4152                      | 0.0793                  | 0.3 x/c          |
| Outboard station rake | 0.7065                     | 0.3086                      | 0.0816                  | 0.3 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.0250             | 0.0400           | 0.3225             |
| 0.0500         | 0.0888             | 0.0700           | 0.3304             |
| 0.1100         | 0.0415             | 0.1200           | 0.1733             |
| 0.1700         | 0.0634             | 0.1800           | 0.1232             |
| 0.2200         | 0.1122             | 0.2100           | 0.2595             |
| 0.2700         | 0.2570             | 0.2700           | 0.4327             |
| 0.3200         | 0.3418             | 0.3100           | 0.5566             |
| 0.3600         | 0.4629             | 0.3700           | 0.6721             |
| 0.4100         | 0.5667             | 0.4200           | 0.7857             |
| 0.5100         | 0.7678             | 0.5300           | 0.9554             |
| 0.7200         | 0.9991             | 0.7300           | 1.0052             |
| 0.9100         | 1.0029             | 0.9400           | 1.0059             |
| 1.1100         | 1.0033             | 1.1500           | 0.9996             |
| 1.3000         | 1.0047             | 1.3500           | 0.9982             |
| 1.5300         | 1.0042             | 1.5500           | 1.0035             |
| 1.7400         | 1.0025             | 1.7500           | 1.0018             |
| 1.9400         | 1.0014             | 1.9500           | 1.0041             |
| 2.1400         | 1.0006             | 2.1600           | 0.9999             |
| 2.3500         | 0.9948             | 2.3700           | 0.9927             |
| 2.5500         | 0.9857             | 2.5800           | 0.9888             |



Flight 21 Test point 24

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 34900. Angle of attack, deg = 2.1  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 223.9 Rrho = 1937000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | 0.9189                        | 0.4717                         | 0.0981                     | 0.3 x/c             |
| Outboard station rake | 0.7126                        | 0.2907                         | 0.0899                     | 0.3 x/c             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1586             | 0.0400           | 0.5709             |
| 0.0500         | 0.1888             | 0.0700           | 0.5658             |
| 0.1100         | 0.1510             | 0.1200           | 0.4145             |
| 0.1700         | 0.1359             | 0.1800           | 0.3080             |
| 0.2200         | 0.0846             | 0.2100           | 0.1304             |
| 0.2700         | 0.1269             | 0.2700           | 0.3707             |
| 0.3200         | 0.1927             | 0.3100           | 0.5280             |
| 0.3600         | 0.2933             | 0.3700           | 0.6623             |
| 0.4100         | 0.4050             | 0.4200           | 0.7720             |
| 0.5100         | 0.6097             | 0.5300           | 0.9434             |
| 0.7200         | 0.9485             | 0.7300           | 1.0048             |
| 0.9100         | 0.9979             | 0.9400           | 1.0054             |
| 1.1100         | 1.0026             | 1.1500           | 0.9987             |
| 1.3000         | 1.0040             | 1.3500           | 0.9994             |
| 1.5300         | 1.0042             | 1.5500           | 1.0043             |
| 1.7400         | 1.0025             | 1.7500           | 1.0049             |
| 1.9400         | 1.0012             | 1.9500           | 1.0038             |
| 2.1400         | 1.0006             | 2.1600           | 0.9965             |
| 2.3500         | 0.9965             | 2.3700           | 0.9907             |
| 2.5500         | 0.9905             | 2.5800           | 0.9915             |

Flight 21 Test point 25

Sweep, deg = 20.1 Mach = 0.81 hp, ft = 34600. Angle of attack, deg = 2.1  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 230.6 Rrho = 1980000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 1.3475                     | 0.6667                      | 0.1381                  | 0.3 x/c          |
| Outboard station rake | 0.8460                     | 0.4220                      | 0.0856                  | 0.3 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1687             | 0.0400           | 0.0966             |
| 0.0500         | 0.1544             | 0.0700           | 0.1144             |
| 0.1100         | 0.2681             | 0.1200           | 0.0442             |
| 0.1700         | 0.2750             | 0.1800           | 0.1107             |
| 0.2200         | 0.2649             | 0.2100           | 0.1844             |
| 0.2700         | 0.2806             | 0.2700           | 0.1423             |
| 0.3200         | 0.2764             | 0.3100           | 0.2969             |
| 0.3600         | 0.2409             | 0.3700           | 0.4454             |
| 0.4100         | 0.1838             | 0.4200           | 0.5632             |
| 0.5100         | 0.0060             | 0.5300           | 0.7798             |
| 0.7200         | 0.6080             | 0.7300           | 0.9925             |
| 0.9100         | 0.8547             | 0.9400           | 1.0054             |
| 1.1100         | 0.9702             | 1.1500           | 0.9993             |
| 1.3000         | 0.9944             | 1.3500           | 0.9960             |
| 1.5300         | 1.0006             | 1.5500           | 1.0011             |
| 1.7400         | 1.0024             | 1.7500           | 1.0015             |
| 1.9400         | 1.0020             | 1.9500           | 1.0023             |
| 2.1400         | 0.9991             | 2.1600           | 0.9990             |
| 2.3500         | 1.0007             | 2.3700           | 0.9953             |
| 2.5500         | 1.0008             | 2.5800           | 1.0001             |

Flight 21 Test point 26

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 351.5 Rrho = 2830000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7073                     | 0.2579                      | 0.0843                  | 0.3 x/c          |
| Outboard station rake | 0.5347                     | 0.2265                      | 0.0743                  | 0.3 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5070             | 0.0400           | 0.5546             |
| 0.0500         | 0.4740             | 0.0700           | 0.5059             |
| 0.1100         | 0.3158             | 0.1200           | 0.2755             |
| 0.1700         | 0.2323             | 0.1800           | 0.2902             |
| 0.2200         | 0.4181             | 0.2100           | 0.4624             |
| 0.2700         | 0.5523             | 0.2700           | 0.6178             |
| 0.3200         | 0.6644             | 0.3100           | 0.7322             |
| 0.3600         | 0.7584             | 0.3700           | 0.8389             |
| 0.4100         | 0.8402             | 0.4200           | 0.9180             |
| 0.5100         | 0.9626             | 0.5300           | 0.9969             |
| 0.7200         | 1.0021             | 0.7300           | 1.0017             |
| 0.9100         | 1.0015             | 0.9400           | 1.0034             |
| 1.1100         | 1.0038             | 1.1500           | 0.9987             |
| 1.3000         | 1.0030             | 1.3500           | 0.9991             |
| 1.5300         | 1.0037             | 1.5500           | 1.0024             |
| 1.7400         | 1.0019             | 1.7500           | 1.0024             |
| 1.9400         | 1.0014             | 1.9500           | 1.0026             |
| 2.1400         | 0.9970             | 2.1600           | 0.9998             |
| 2.3500         | 0.9936             | 2.3700           | 0.9972             |
| 2.5500         | 0.9919             | 2.5800           | 0.9958             |

Flight 21 Test point 27

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 24900. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 354.0 Rrho = 2835000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7161                     | 0.2832                      | 0.0926                  | 0.3 x/c          |
| Outboard station rake | 0.7243                     | 0.2668                      | 0.0927                  | 0.3 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.6061             | 0.0400           | 0.6546             |
| 0.0500         | 0.5988             | 0.0700           | 0.6376             |
| 0.1100         | 0.4858             | 0.1200           | 0.4847             |
| 0.1700         | 0.3364             | 0.1800           | 0.2956             |
| 0.2200         | 0.1427             | 0.2100           | 0.2107             |
| 0.2700         | 0.3977             | 0.2700           | 0.4575             |
| 0.3200         | 0.5505             | 0.3100           | 0.5918             |
| 0.3600         | 0.6610             | 0.3700           | 0.7016             |
| 0.4100         | 0.7625             | 0.4200           | 0.7965             |
| 0.5100         | 0.9188             | 0.5300           | 0.9356             |
| 0.7200         | 1.0013             | 0.7300           | 1.0017             |
| 0.9100         | 1.0015             | 0.9400           | 1.0031             |
| 1.1100         | 1.0029             | 1.1500           | 0.9985             |
| 1.3000         | 1.0025             | 1.3500           | 0.9996             |
| 1.5300         | 1.0021             | 1.5500           | 1.0016             |
| 1.7400         | 1.0020             | 1.7500           | 1.0014             |
| 1.9400         | 1.0021             | 1.9500           | 1.0024             |
| 2.1400         | 0.9996             | 2.1600           | 0.9975             |
| 2.3500         | 0.9932             | 2.3700           | 0.9957             |
| 2.5500         | 0.9927             | 2.5800           | 0.9985             |

Flight 21 Test point 28

Sweep, deg = 20.0 Mach = 0.81 hp, ft = 25200. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 353.3 Rnpu = 2836000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6939                     | 0.2790                      | 0.0829                  | 0.3 x/c          |
| Outboard station rake | 0.5354                     | 0.2350                      | 0.0747                  | 0.3 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4186             | 0.0400           | 0.5356             |
| 0.0500         | 0.3981             | 0.0700           | 0.4981             |
| 0.1100         | 0.2572             | 0.1200           | 0.2790             |
| 0.1700         | 0.2027             | 0.1800           | 0.2669             |
| 0.2200         | 0.3842             | 0.2100           | 0.4471             |
| 0.2700         | 0.5125             | 0.2700           | 0.6031             |
| 0.3200         | 0.6304             | 0.3100           | 0.7172             |
| 0.3600         | 0.7286             | 0.3700           | 0.8243             |
| 0.4100         | 0.8177             | 0.4200           | 0.9044             |
| 0.5100         | 0.9542             | 0.5300           | 0.9958             |
| 0.7200         | 1.0056             | 0.7300           | 1.0032             |
| 0.9100         | 1.0047             | 0.9400           | 1.0044             |
| 1.1100         | 1.0050             | 1.1500           | 1.0000             |
| 1.3000         | 1.0043             | 1.3500           | 1.0000             |
| 1.5300         | 1.0044             | 1.5500           | 1.0038             |
| 1.7400         | 1.0042             | 1.7500           | 1.0035             |
| 1.9400         | 1.0027             | 1.9500           | 1.0036             |
| 2.1400         | 0.9922             | 2.1600           | 1.0000             |
| 2.3500         | 0.9883             | 2.3700           | 0.9946             |
| 2.5500         | 0.9886             | 2.5800           | 0.9910             |

Flight 21 Test point 29

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 354.6 R<sub>rho</sub> = 2850000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 1.1501                     | 0.5917                      | 0.1445                  | 0.3 x/c          |
| Outboard station rake | 0.7292                     | 0.3622                      | 0.0823                  | 0.3 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2104             | 0.0400           | 0.1713             |
| 0.0500         | 0.1972             | 0.0700           | 0.1960             |
| 0.1100         | 0.2363             | 0.1200           | 0.1265             |
| 0.1700         | 0.2566             | 0.1800           | 0.0314             |
| 0.2200         | 0.2745             | 0.2100           | 0.1678             |
| 0.2700         | 0.2855             | 0.2700           | 0.3300             |
| 0.3200         | 0.2916             | 0.3100           | 0.4560             |
| 0.3600         | 0.2470             | 0.3700           | 0.5772             |
| 0.4100         | 0.1896             | 0.4200           | 0.6881             |
| 0.5100         | 0.2476             | 0.5300           | 0.8913             |
| 0.7200         | 0.7039             | 0.7300           | 1.0004             |
| 0.9100         | 0.9187             | 0.9400           | 1.0046             |
| 1.1100         | 0.9872             | 1.1500           | 1.0000             |
| 1.3000         | 0.9981             | 1.3500           | 0.9989             |
| 1.5300         | 1.0027             | 1.5500           | 1.0022             |
| 1.7400         | 1.0024             | 1.7500           | 1.0020             |
| 1.9400         | 1.0036             | 1.9500           | 1.0017             |
| 2.1400         | 1.0026             | 2.1600           | 0.9994             |
| 2.3500         | 1.0018             | 2.3700           | 0.9984             |
| 2.5500         | 1.0016             | 2.5800           | 0.9928             |

Flight 21 Test point 30

Sweep, deg = 25.0 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 354.1 Rrho = 2849000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9375                     | 0.3047                      | 0.0961                  | 0.3 x/c          |
| Outboard station rake | 0.7182                     | 0.2455                      | 0.0814                  | 0.3 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.1191 | 0.0400           | 0.4338 |
| 0.0500         | 0.0651 | 0.0700           | 0.3560 |
| 0.1100         | 0.2727 | 0.1200           | 0.2100 |
| 0.1700         | 0.3839 | 0.1800           | 0.4204 |
| 0.2200         | 0.4640 | 0.2100           | 0.5285 |
| 0.2700         | 0.5434 | 0.2700           | 0.6370 |
| 0.3200         | 0.6155 | 0.3100           | 0.7242 |
| 0.3600         | 0.6865 | 0.3700           | 0.8038 |
| 0.4100         | 0.7496 | 0.4200           | 0.8701 |
| 0.5100         | 0.8642 | 0.5300           | 0.9660 |
| 0.7200         | 0.9960 | 0.7300           | 1.0019 |
| 0.9100         | 0.9996 | 0.9400           | 1.0019 |
| 1.1100         | 1.0005 | 1.1500           | 0.9990 |
| 1.3000         | 0.9999 | 1.3500           | 0.9979 |
| 1.5300         | 1.0008 | 1.5500           | 1.0009 |
| 1.7400         | 0.9999 | 1.7500           | 1.0007 |
| 1.9400         | 1.0000 | 1.9500           | 1.0015 |
| 2.1400         | 0.9993 | 2.1600           | 0.9997 |
| 2.3500         | 1.0004 | 2.3700           | 0.9990 |
| 2.5500         | 0.9997 | 2.5800           | 0.9975 |

Flight 21 Test point 31

Sweep, deg = 25.0 Mach = 0.80 hp, ft = 25100. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 351.0 Rnpu = 2830000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7633                     | 0.2942                      | 0.0925                  | 0.3 x/c          |
| Outboard station rake | 0.7170                     | 0.2540                      | 0.0800                  | 0.3 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2279             | 0.0400           | 0.4606             |
| 0.0500         | 0.1614             | 0.0700           | 0.3879             |
| 0.1100         | 0.2316             | 0.1200           | 0.1311             |
| 0.1700         | 0.3744             | 0.1800           | 0.3872             |
| 0.2200         | 0.4632             | 0.2100           | 0.5010             |
| 0.2700         | 0.5556             | 0.2700           | 0.6200             |
| 0.3200         | 0.6354             | 0.3100           | 0.7065             |
| 0.3600         | 0.7130             | 0.3700           | 0.7938             |
| 0.4100         | 0.7788             | 0.4200           | 0.8632             |
| 0.5100         | 0.8898             | 0.5300           | 0.9649             |
| 0.7200         | 0.9996             | 0.7300           | 1.0021             |
| 0.9100         | 1.0013             | 0.9400           | 1.0028             |
| 1.1100         | 1.0018             | 1.1500           | 0.9998             |
| 1.3000         | 1.0004             | 1.3500           | 0.9991             |
| 1.5300         | 1.0018             | 1.5500           | 1.0022             |
| 1.7400         | 1.0010             | 1.7500           | 1.0006             |
| 1.9400         | 0.9999             | 1.9500           | 1.0012             |
| 2.1400         | 1.0002             | 2.1600           | 1.0001             |
| 2.3500         | 0.9993             | 2.3700           | 0.9971             |
| 2.5500         | 0.9943             | 2.5800           | 0.9949             |



Flight 21 Test point 32

Sweep, deg = 24.9 Mach = 0.80 hp, ft = 25100. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = 0.4 QBAR, lb/ft<sup>2</sup> = 349.1 Rrho = 2822000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7067                     | 0.2932                      | 0.0871                  | 0.3 x/c          |
| Outboard station rake | 0.6999                     | 0.2683                      | 0.0770                  | 0.3 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.3053 | 0.0400           | 0.2545 |
| 0.0500         | 0.2701 | 0.0700           | 0.2034 |
| 0.1100         | 0.1286 | 0.1200           | 0.2012 |
| 0.1700         | 0.3453 | 0.1800           | 0.3485 |
| 0.2200         | 0.4558 | 0.2100           | 0.4584 |
| 0.2700         | 0.5551 | 0.2700           | 0.5842 |
| 0.3200         | 0.6418 | 0.3100           | 0.6815 |
| 0.3600         | 0.7205 | 0.3700           | 0.7800 |
| 0.4100         | 0.7873 | 0.4200           | 0.8595 |
| 0.5100         | 0.9083 | 0.5300           | 0.9739 |
| 0.7200         | 1.0055 | 0.7300           | 1.0040 |
| 0.9100         | 1.0047 | 0.9400           | 1.0055 |
| 1.1100         | 1.0056 | 1.1500           | 1.0018 |
| 1.3000         | 1.0043 | 1.3500           | 1.0006 |
| 1.5300         | 1.0054 | 1.5500           | 1.0025 |
| 1.7400         | 1.0047 | 1.7500           | 1.0021 |
| 1.9400         | 1.0034 | 1.9500           | 1.0029 |
| 2.1400         | 0.9921 | 2.1600           | 0.9961 |
| 2.3500         | 0.9866 | 2.3700           | 0.9945 |
| 2.5500         | 0.9876 | 2.5800           | 0.9898 |

Flight 21 Test point 33

Sweep, deg = 30.0 Mach = 0.80 hp,  $\rho t = 25100$ . Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 349.8  $R_{\rho u} = 2827000$ .

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9362                     | 0.2215                      | 0.1045                  | 0.3 x/c          |
| Outboard station rake | 0.7301                     | 0.1865                      | 0.0839                  | 0.3 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4563             | 0.0400           | 0.4347             |
| 0.0500         | 0.4847             | 0.0700           | 0.4941             |
| 0.1100         | 0.5400             | 0.1200           | 0.5675             |
| 0.1700         | 0.5909             | 0.1800           | 0.6242             |
| 0.2200         | 0.6286             | 0.2100           | 0.6696             |
| 0.2700         | 0.6753             | 0.2700           | 0.7308             |
| 0.3200         | 0.7162             | 0.3100           | 0.7861             |
| 0.3600         | 0.7585             | 0.3700           | 0.8367             |
| 0.4100         | 0.7979             | 0.4200           | 0.8868             |
| 0.5100         | 0.8834             | 0.5300           | 0.9686             |
| 0.7200         | 0.9943             | 0.7300           | 1.0000             |
| 0.9100         | 0.9994             | 0.9400           | 1.0028             |
| 1.1100         | 1.0017             | 1.1500           | 0.9980             |
| 1.3000         | 0.9997             | 1.3500           | 0.9963             |
| 1.5300         | 1.0007             | 1.5500           | 1.0012             |
| 1.7400         | 0.9999             | 1.7500           | 1.0001             |
| 1.9400         | 0.9994             | 1.9500           | 1.0011             |
| 2.1400         | 1.0001             | 2.1600           | 0.9996             |
| 2.3500         | 0.9996             | 2.3700           | 1.0001             |
| 2.5500         | 0.9996             | 2.5800           | 1.0009             |

Flight 21 Test point 34

Sweep, deg = 30.0 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 354.8 Rrho = 2847000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | 0.9181                        | 0.2781                         | 0.1138                     | 0.3 x/c             |
| Outboard station rake | 0.7203                        | 0.2734                         | 0.0961                     | 0.3 x/c             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3387             | 0.0400           | 0.1997             |
| 0.0500         | 0.3627             | 0.0700           | 0.2541             |
| 0.1100         | 0.4064             | 0.1200           | 0.3542             |
| 0.1700         | 0.4695             | 0.1800           | 0.4279             |
| 0.2200         | 0.5139             | 0.2100           | 0.4815             |
| 0.2700         | 0.5716             | 0.2700           | 0.5686             |
| 0.3200         | 0.6255             | 0.3100           | 0.6384             |
| 0.3600         | 0.6847             | 0.3700           | 0.7178             |
| 0.4100         | 0.7365             | 0.4200           | 0.7927             |
| 0.5100         | 0.8427             | 0.5300           | 0.9212             |
| 0.7200         | 0.9856             | 0.7300           | 1.0036             |
| 0.9100         | 0.9995             | 0.9400           | 1.0039             |
| 1.1100         | 1.0015             | 1.1500           | 1.0006             |
| 1.3000         | 0.9999             | 1.3500           | 0.9985             |
| 1.5300         | 1.0001             | 1.5500           | 1.0021             |
| 1.7400         | 1.0002             | 1.7500           | 1.0013             |
| 1.9400         | 0.9996             | 1.9500           | 1.0018             |
| 2.1400         | 1.0000             | 2.1600           | 0.9973             |
| 2.3500         | 1.0005             | 2.3700           | 0.9961             |
| 2.5500         | 0.9988             | 2.5800           | 0.9949             |

Flight 21 Test point 35

Sweep, deg = 30.0 Mach = 0.80 hp, ft = 25100. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = 0.4 QBAR, lb/ft<sup>2</sup> = 347.8 Rnpu = 2808000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9125                     | 0.2804                      | 0.1175                  | 0.3 x/c          |
| Outboard station rake | 0.7235                     | 0.2963                      | 0.0983                  | 0.3 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3693             | 0.0400           | 0.1707             |
| 0.0500         | 0.3903             | 0.0700           | 0.2211             |
| 0.1100         | 0.4250             | 0.1200           | 0.3135             |
| 0.1700         | 0.4811             | 0.1800           | 0.3795             |
| 0.2200         | 0.5232             | 0.2100           | 0.4455             |
| 0.2700         | 0.5695             | 0.2700           | 0.5169             |
| 0.3200         | 0.6182             | 0.3100           | 0.5950             |
| 0.3600         | 0.6667             | 0.3700           | 0.6773             |
| 0.4100         | 0.7180             | 0.4200           | 0.7592             |
| 0.5100         | 0.8234             | 0.5300           | 0.9005             |
| 0.7200         | 0.9842             | 0.7300           | 1.0030             |
| 0.9100         | 0.9998             | 0.9400           | 1.0041             |
| 1.1100         | 1.0003             | 1.1500           | 0.9998             |
| 1.3000         | 1.0005             | 1.3500           | 0.9982             |
| 1.5300         | 1.0011             | 1.5500           | 1.0020             |
| 1.7400         | 0.9998             | 1.7500           | 1.0025             |
| 1.9400         | 1.0007             | 1.9500           | 1.0030             |
| 2.1400         | 0.9991             | 2.1600           | 0.9989             |
| 2.3500         | 0.9998             | 2.3700           | 0.9969             |
| 2.5500         | 0.9989             | 2.5800           | 0.9946             |

Flight 21 Test point 36

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 270.4 R<sub>rho</sub> = 2457000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4903                     | 0.1624                      | 0.0666                  | 0.3 x/c          |
| Outboard station rake | 0.4406                     | 0.1527                      | 0.0566                  | 0.3 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2763             | 0.0400           | 0.4186             |
| 0.0500         | 0.2951             | 0.0700           | 0.2037             |
| 0.1100         | 0.5364             | 0.1200           | 0.5450             |
| 0.1700         | 0.6606             | 0.1800           | 0.6801             |
| 0.2200         | 0.7305             | 0.2100           | 0.7543             |
| 0.2700         | 0.7966             | 0.2700           | 0.8365             |
| 0.3200         | 0.8527             | 0.3100           | 0.9002             |
| 0.3600         | 0.9028             | 0.3700           | 0.9499             |
| 0.4100         | 0.9425             | 0.4200           | 0.9854             |
| 0.5100         | 0.9920             | 0.5300           | 1.0012             |
| 0.7200         | 1.0008             | 0.7300           | 1.0032             |
| 0.9100         | 0.9997             | 0.9400           | 1.0046             |
| 1.1100         | 1.0013             | 1.1500           | 0.9969             |
| 1.3000         | 0.9995             | 1.3500           | 0.9962             |
| 1.5300         | 1.0029             | 1.5500           | 1.0019             |
| 1.7400         | 1.0015             | 1.7500           | 1.0014             |
| 1.9400         | 1.0012             | 1.9500           | 1.0037             |
| 2.1400         | 0.9991             | 2.1600           | 1.0016             |
| 2.3500         | 1.0005             | 2.3700           | 1.0019             |
| 2.5500         | 1.0014             | 2.5800           | 1.0020             |

Flight 21 Test point 37

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 24900. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = -4.7 QBAR, lb/ft<sup>2</sup> = 270.4 Rnpu = 2455000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5352                     | 0.1828                      | 0.0747                  | 0.3 x/c          |
| Outboard station rake | 0.4558                     | 0.1731                      | 0.0590                  | 0.3 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.6376             | 0.0400           | 0.7600             |
| 0.0500         | 0.4585             | 0.0700           | 0.5998             |
| 0.1100         | 0.2675             | 0.1200           | 0.0912             |
| 0.1700         | 0.5552             | 0.1800           | 0.5080             |
| 0.2200         | 0.6646             | 0.2100           | 0.6441             |
| 0.2700         | 0.7414             | 0.2700           | 0.7621             |
| 0.3200         | 0.8093             | 0.3100           | 0.8465             |
| 0.3600         | 0.8691             | 0.3700           | 0.9123             |
| 0.4100         | 0.9159             | 0.4200           | 0.9659             |
| 0.5100         | 0.9842             | 0.5300           | 0.9991             |
| 0.7200         | 1.0009             | 0.7300           | 1.0033             |
| 0.9100         | 0.9992             | 0.9400           | 1.0058             |
| 1.1100         | 1.0028             | 1.1500           | 0.9968             |
| 1.3000         | 1.0011             | 1.3500           | 0.9986             |
| 1.5300         | 1.0040             | 1.5500           | 1.0060             |
| 1.7400         | 1.0011             | 1.7500           | 1.0043             |
| 1.9400         | 1.0005             | 1.9500           | 1.0054             |
| 2.1400         | 1.0015             | 2.1600           | 1.0044             |
| 2.3500         | 1.0019             | 2.3700           | 1.0047             |
| 2.5500         | 1.0028             | 2.5800           | 1.0058             |

Flight 21 Test point 38

Sweep, deg = 20.0 Mach = 0.70  $h_p$ , ft = 25400. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.1  $QBAR$ , lb/ft<sup>2</sup> = 264.9  $Rnpu$  = 2411000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4806                     | 0.1562                      | 0.0633                  | 0.3 x/c          |
| Outboard station rake | 0.4253                     | 0.1456                      | 0.0551                  | 0.3 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1773             | 0.0400           | 0.3405             |
| 0.0500         | 0.3386             | 0.0700           | 0.3045             |
| 0.1100         | 0.5569             | 0.1200           | 0.5716             |
| 0.1700         | 0.6783             | 0.1800           | 0.6993             |
| 0.2200         | 0.7490             | 0.2100           | 0.7721             |
| 0.2700         | 0.8099             | 0.2700           | 0.8539             |
| 0.3200         | 0.8670             | 0.3100           | 0.9140             |
| 0.3600         | 0.9157             | 0.3700           | 0.9612             |
| 0.4100         | 0.9527             | 0.4200           | 0.9922             |
| 0.5100         | 0.9995             | 0.5300           | 0.9984             |
| 0.7200         | 1.0056             | 0.7300           | 1.0021             |
| 0.9100         | 1.0031             | 0.9400           | 1.0042             |
| 1.1100         | 1.0067             | 1.1500           | 0.9972             |
| 1.3000         | 1.0041             | 1.3500           | 0.9946             |
| 1.5300         | 1.0054             | 1.5500           | 1.0003             |
| 1.7400         | 1.0062             | 1.7500           | 1.0020             |
| 1.9400         | 1.0035             | 1.9500           | 1.0034             |
| 2.1400         | 1.0046             | 2.1600           | 1.0024             |
| 2.3500         | 1.0034             | 2.3700           | 1.0012             |
| 2.5500         | 1.0053             | 2.5800           | 1.0020             |

Flight 21 Test point 39

Sweep, deg = 24.9 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 268.3 Rrho = 2440000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4676                     | 0.1282                      | 0.0617                  | 0.3 x/c          |
| Outboard station rake | 0.4062                     | 0.1217                      | 0.0515                  | 0.3 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.4580 | 0.0400           | 0.3784 |
| 0.0500         | 0.5359 | 0.0700           | 0.5263 |
| 0.1100         | 0.6400 | 0.1200           | 0.6628 |
| 0.1700         | 0.7254 | 0.1800           | 0.7508 |
| 0.2200         | 0.7808 | 0.2100           | 0.8104 |
| 0.2700         | 0.8352 | 0.2700           | 0.8825 |
| 0.3200         | 0.8850 | 0.3100           | 0.9346 |
| 0.3600         | 0.9298 | 0.3700           | 0.9769 |
| 0.4100         | 0.9641 | 0.4200           | 0.9987 |
| 0.5100         | 0.9994 | 0.5300           | 1.0011 |
| 0.7200         | 1.0037 | 0.7300           | 1.0036 |
| 0.9100         | 1.0019 | 0.9400           | 1.0048 |
| 1.1100         | 1.0034 | 1.1500           | 0.9995 |
| 1.3000         | 1.0031 | 1.3500           | 0.9975 |
| 1.5300         | 1.0045 | 1.5500           | 1.0027 |
| 1.7400         | 1.0033 | 1.7500           | 1.0034 |
| 1.9400         | 1.0027 | 1.9500           | 1.0039 |
| 2.1400         | 1.0044 | 2.1600           | 1.0026 |
| 2.3500         | 1.0053 | 2.3700           | 1.0017 |
| 2.5500         | 1.0043 | 2.5800           | 1.0037 |



Flight 21 Test point 40

Sweep, deg = 24.9 Mach = 0.71 hp, ft = 25100. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 272.3 Rrho = 2450000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4645                     | 0.1250                      | 0.0605                  | 0.3 x/c          |
| Outboard station rake | 0.4004                     | 0.1168                      | 0.0503                  | 0.3 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4727             | 0.0400           | 0.4178             |
| 0.0500         | 0.5484             | 0.0700           | 0.5502             |
| 0.1100         | 0.6451             | 0.1200           | 0.6718             |
| 0.1700         | 0.7275             | 0.1800           | 0.7579             |
| 0.2200         | 0.7863             | 0.2100           | 0.8200             |
| 0.2700         | 0.8427             | 0.2700           | 0.8900             |
| 0.3200         | 0.8919             | 0.3100           | 0.9427             |
| 0.3600         | 0.9367             | 0.3700           | 0.9820             |
| 0.4100         | 0.9685             | 0.4200           | 0.9990             |
| 0.5100         | 0.9982             | 0.5300           | 1.0022             |
| 0.7200         | 1.0040             | 0.7300           | 1.0039             |
| 0.9100         | 1.0034             | 0.9400           | 1.0046             |
| 1.1100         | 1.0038             | 1.1500           | 0.9975             |
| 1.3000         | 1.0035             | 1.3500           | 0.9955             |
| 1.5300         | 1.0054             | 1.5500           | 1.0029             |
| 1.7400         | 1.0028             | 1.7500           | 1.0023             |
| 1.9400         | 1.0018             | 1.9500           | 1.0038             |
| 2.1400         | 1.0029             | 2.1600           | 1.0020             |
| 2.3500         | 1.0031             | 2.3700           | 1.0020             |
| 2.5500         | 1.0025             | 2.5800           | 1.0023             |

Flight 21 Test point 41

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 269.3 Rrho = 2437000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5521                     | 0.1331                      | 0.0691                  | 0.3 x/c          |
| Outboard station rake | 0.3851                     | 0.0993                      | 0.0463                  | 0.3 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5680             | 0.0400           | 0.5863             |
| 0.0500         | 0.6056             | 0.0700           | 0.6406             |
| 0.1100         | 0.6633             | 0.1200           | 0.7212             |
| 0.1700         | 0.7227             | 0.1800           | 0.7910             |
| 0.2200         | 0.7633             | 0.2100           | 0.8441             |
| 0.2700         | 0.8133             | 0.2700           | 0.9058             |
| 0.3200         | 0.8556             | 0.3100           | 0.9513             |
| 0.3600         | 0.8939             | 0.3700           | 0.9844             |
| 0.4100         | 0.9256             | 0.4200           | 0.9988             |
| 0.5100         | 0.9796             | 0.5300           | 1.0013             |
| 0.7200         | 1.0017             | 0.7300           | 1.0028             |
| 0.9100         | 0.9997             | 0.9400           | 1.0047             |
| 1.1100         | 1.0034             | 1.1500           | 0.9987             |
| 1.3000         | 1.0020             | 1.3500           | 0.9962             |
| 1.5300         | 1.0036             | 1.5500           | 1.0020             |
| 1.7400         | 1.0027             | 1.7500           | 1.0015             |
| 1.9400         | 1.0023             | 1.9500           | 1.0035             |
| 2.1400         | 1.0015             | 2.1600           | 1.0016             |
| 2.3500         | 1.0028             | 2.3700           | 1.0014             |
| 2.5500         | 1.0008             | 2.5800           | 1.0030             |

Flight 21 Test point 42

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 269.2 Rrho = 2441000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7242                     | 0.1543                      | 0.0820                  | 0.3 x/c          |
| Outboard station rake | 0.4669                     | 0.1160                      | 0.0564                  | 0.3 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5547 | 0.0400           | 0.5869 |
| 0.0500         | 0.5881 | 0.0700           | 0.6294 |
| 0.1100         | 0.6473 | 0.1200           | 0.6983 |
| 0.1700         | 0.7013 | 0.1800           | 0.7621 |
| 0.2200         | 0.7417 | 0.2100           | 0.8038 |
| 0.2700         | 0.7808 | 0.2700           | 0.8590 |
| 0.3200         | 0.8175 | 0.3100           | 0.9002 |
| 0.3600         | 0.8604 | 0.3700           | 0.9397 |
| 0.4100         | 0.8873 | 0.4200           | 0.9740 |
| 0.5100         | 0.9468 | 0.5300           | 1.0013 |
| 0.7200         | 0.9991 | 0.7300           | 1.0052 |
| 0.9100         | 0.9982 | 0.9400           | 1.0055 |
| 1.1100         | 1.0013 | 1.1500           | 0.9981 |
| 1.3000         | 1.0002 | 1.3500           | 0.9961 |
| 1.5300         | 1.0005 | 1.5500           | 1.0030 |
| 1.7400         | 1.0015 | 1.7500           | 1.0016 |
| 1.9400         | 0.9993 | 1.9500           | 1.0037 |
| 2.1400         | 1.0004 | 2.1600           | 1.0033 |
| 2.3500         | 1.0003 | 2.3700           | 1.0023 |
| 2.5500         | 0.9992 | 2.5800           | 1.0058 |

Flight 21 Test point 43

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 271.5 Rrho = 2455000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7166                     | 0.1527                      | 0.0812                  | 0.3 x/c          |
| Outboard station rake | 0.4223                     | 0.1061                      | 0.0502                  | 0.3 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5539 | 0.0400           | 0.5866 |
| 0.0500         | 0.5937 | 0.0700           | 0.6338 |
| 0.1100         | 0.6507 | 0.1200           | 0.7124 |
| 0.1700         | 0.7095 | 0.1800           | 0.7795 |
| 0.2200         | 0.7452 | 0.2100           | 0.8273 |
| 0.2700         | 0.7856 | 0.2700           | 0.8852 |
| 0.3200         | 0.8225 | 0.3100           | 0.9304 |
| 0.3600         | 0.8613 | 0.3700           | 0.9696 |
| 0.4100         | 0.8878 | 0.4200           | 0.9924 |
| 0.5100         | 0.9466 | 0.5300           | 1.0014 |
| 0.7200         | 1.0008 | 0.7300           | 1.0018 |
| 0.9100         | 0.9976 | 0.9400           | 1.0039 |
| 1.1100         | 1.0016 | 1.1500           | 0.9976 |
| 1.3000         | 0.9991 | 1.3500           | 0.9950 |
| 1.5300         | 1.0019 | 1.5500           | 1.0018 |
| 1.7400         | 1.0000 | 1.7500           | 1.0005 |
| 1.9400         | 0.9984 | 1.9500           | 1.0022 |
| 2.1400         | 1.0014 | 2.1600           | 1.0009 |
| 2.3500         | 0.9992 | 2.3700           | 1.0007 |
| 2.5500         | 1.0002 | 2.5800           | 1.0019 |

Flight 21 Test point 44

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 334.5 Rrho = 2913000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4758                     | 0.1521                      | 0.0610                  | 0.3 x/c          |
| Outboard station rake | 0.4133                     | 0.1410                      | 0.0532                  | 0.3 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1284             | 0.0400           | 0.3187             |
| 0.0500         | 0.3627             | 0.0700           | 0.3300             |
| 0.1100         | 0.5705             | 0.1200           | 0.5881             |
| 0.1700         | 0.6934             | 0.1800           | 0.7135             |
| 0.2200         | 0.7541             | 0.2100           | 0.7869             |
| 0.2700         | 0.8181             | 0.2700           | 0.8634             |
| 0.3200         | 0.8752             | 0.3100           | 0.9230             |
| 0.3600         | 0.9264             | 0.3700           | 0.9696             |
| 0.4100         | 0.9601             | 0.4200           | 0.9969             |
| 0.5100         | 0.9997             | 0.5300           | 1.0011             |
| 0.7200         | 1.0035             | 0.7300           | 1.0035             |
| 0.9100         | 1.0032             | 0.9400           | 1.0062             |
| 1.1100         | 1.0040             | 1.1500           | 0.9990             |
| 1.3000         | 1.0036             | 1.3500           | 0.9991             |
| 1.5300         | 1.0050             | 1.5500           | 1.0025             |
| 1.7400         | 1.0043             | 1.7500           | 1.0037             |
| 1.9400         | 1.0045             | 1.9500           | 1.0062             |
| 2.1400         | 1.0030             | 2.1600           | 1.0031             |
| 2.3500         | 1.0044             | 2.3700           | 1.0047             |
| 2.5500         | 1.0047             | 2.5800           | 1.0042             |

Flight 21 Test point 45

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 19900. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 335.1 Rrho = 2914000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5290                     | 0.1729                      | 0.0726                  | 0.3 x/c          |
| Outboard station rake | 0.5605                     | 0.1846                      | 0.0745                  | 0.3 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.6238             | 0.0400           | 0.6888             |
| 0.0500         | 0.4307             | 0.0700           | 0.5023             |
| 0.1100         | 0.3242             | 0.1200           | 0.2541             |
| 0.1700         | 0.5815             | 0.1800           | 0.5351             |
| 0.2200         | 0.6851             | 0.2100           | 0.6411             |
| 0.2700         | 0.7617             | 0.2700           | 0.7373             |
| 0.3200         | 0.8337             | 0.3100           | 0.8117             |
| 0.3600         | 0.8881             | 0.3700           | 0.8669             |
| 0.4100         | 0.9311             | 0.4200           | 0.9176             |
| 0.5100         | 0.9898             | 0.5300           | 0.9835             |
| 0.7200         | 1.0005             | 0.7300           | 1.0008             |
| 0.9100         | 0.9990             | 0.9400           | 1.0041             |
| 1.1100         | 1.0008             | 1.1500           | 0.9956             |
| 1.3000         | 1.0010             | 1.3500           | 0.9989             |
| 1.5300         | 1.0019             | 1.5500           | 1.0034             |
| 1.7400         | 1.0014             | 1.7500           | 1.0025             |
| 1.9400         | 1.0008             | 1.9500           | 1.0037             |
| 2.1400         | 1.0015             | 2.1600           | 1.0012             |
| 2.3500         | 1.0017             | 2.3700           | 1.0030             |
| 2.5500         | 1.0017             | 2.5800           | 1.0035             |

Flight 21 Test point 46

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 20100. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 335.5 Rrho = 2917000.

|                       | Boundary layer height, In. | Displacement thickness, In. | Momentum thickness, In. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4804                     | 0.1586                      | 0.0647                  | 0.3 x/c          |
| Outboard station rake | 0.4376                     | 0.1520                      | 0.0562                  | 0.3 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, In.         | U/U <sub>max</sub> | Y, In.           | U/U <sub>max</sub> |
| 0.0300         | 0.2473             | 0.0400           | 0.4083             |
| 0.0500         | 0.3142             | 0.0700           | 0.2094             |
| 0.1100         | 0.5465             | 0.1200           | 0.5448             |
| 0.1700         | 0.6692             | 0.1800           | 0.6813             |
| 0.2200         | 0.7410             | 0.2100           | 0.7571             |
| 0.2700         | 0.8027             | 0.2700           | 0.8408             |
| 0.3200         | 0.8619             | 0.3100           | 0.9015             |
| 0.3600         | 0.9111             | 0.3700           | 0.9532             |
| 0.4100         | 0.9501             | 0.4200           | 0.9865             |
| 0.5100         | 0.9990             | 0.5300           | 0.9997             |
| 0.7200         | 1.0051             | 0.7300           | 1.0016             |
| 0.9100         | 1.0043             | 0.9400           | 1.0034             |
| 1.1100         | 1.0068             | 1.1500           | 0.9971             |
| 1.3000         | 1.0045             | 1.3500           | 0.9977             |
| 1.5300         | 1.0051             | 1.5500           | 1.0028             |
| 1.7400         | 1.0048             | 1.7500           | 1.0020             |
| 1.9400         | 1.0047             | 1.9500           | 1.0036             |
| 2.1400         | 1.0047             | 2.1600           | 1.0002             |
| 2.3500         | 1.0048             | 2.3700           | 1.0025             |
| 2.5500         | 1.0060             | 2.5800           | 1.0030             |

Flight 21 Test point 47

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 336.6 Rrho = 2924000.

|                       | Boundary layer height, In. | Displacement thickness, In. | Momentum thickness, In. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4718                     | 0.1232                      | 0.0608                  | 0.3 x/c          |
| Outboard station rake | 0.4114                     | 0.1147                      | 0.0509                  | 0.3 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, In.         | U/Umax | Y, In.           | U/Umax |
| 0.0300         | 0.5018 | 0.0400           | 0.4698 |
| 0.0500         | 0.5694 | 0.0700           | 0.5697 |
| 0.1100         | 0.6589 | 0.1200           | 0.6828 |
| 0.1700         | 0.7352 | 0.1800           | 0.7632 |
| 0.2200         | 0.7882 | 0.2100           | 0.8195 |
| 0.2700         | 0.8413 | 0.2700           | 0.8854 |
| 0.3200         | 0.8891 | 0.3100           | 0.9379 |
| 0.3600         | 0.9300 | 0.3700           | 0.9763 |
| 0.4100         | 0.9630 | 0.4200           | 0.9983 |
| 0.5100         | 0.9981 | 0.5300           | 1.0018 |
| 0.7200         | 1.0040 | 0.7300           | 1.0028 |
| 0.9100         | 1.0033 | 0.9400           | 1.0054 |
| 1.1100         | 1.0047 | 1.1500           | 1.0005 |
| 1.3000         | 1.0028 | 1.3500           | 0.9974 |
| 1.5300         | 1.0047 | 1.5500           | 1.0024 |
| 1.7400         | 1.0034 | 1.7500           | 1.0029 |
| 1.9400         | 1.0032 | 1.9500           | 1.0033 |
| 2.1400         | 1.0034 | 2.1600           | 1.0024 |
| 2.3500         | 1.0045 | 2.3700           | 1.0030 |
| 2.5500         | 1.0047 | 2.5800           | 1.0034 |



Flight 21 Test point 48

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 19800. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 337.0 Rrho = 2932000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4606                     | 0.1204                      | 0.0589                  | 0.3 x/c          |
| Outboard station rake | 0.4043                     | 0.1165                      | 0.0509                  | 0.3 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.4884 | 0.0400           | 0.4413 |
| 0.0500         | 0.5654 | 0.0700           | 0.5557 |
| 0.1100         | 0.6589 | 0.1200           | 0.6721 |
| 0.1700         | 0.7382 | 0.1800           | 0.7591 |
| 0.2200         | 0.7947 | 0.2100           | 0.8197 |
| 0.2700         | 0.8490 | 0.2700           | 0.8861 |
| 0.3200         | 0.8988 | 0.3100           | 0.9380 |
| 0.3600         | 0.9434 | 0.3700           | 0.9789 |
| 0.4100         | 0.9728 | 0.4200           | 0.9975 |
| 0.5100         | 0.9997 | 0.5300           | 1.0016 |
| 0.7200         | 1.0030 | 0.7300           | 1.0035 |
| 0.9100         | 1.0011 | 0.9400           | 1.0030 |
| 1.1100         | 1.0031 | 1.1500           | 0.9996 |
| 1.3000         | 1.0017 | 1.3500           | 0.9972 |
| 1.5300         | 1.0047 | 1.5500           | 1.0025 |
| 1.7400         | 1.0022 | 1.7500           | 1.0023 |
| 1.9400         | 1.0022 | 1.9500           | 1.0048 |
| 2.1400         | 1.0029 | 2.1600           | 1.0016 |
| 2.3500         | 1.0021 | 2.3700           | 1.0036 |
| 2.5500         | 1.0046 | 2.5800           | 1.0038 |

Flight 21 Test point 49

Sweep, deg = 24.9 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 334.5 Rrho = 2914000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4658                     | 0.1240                      | 0.0602                  | 0.8 x/c          |
| Outboard station rake | 0.4020                     | 0.1168                      | 0.0501                  | 0.3 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4754             | 0.0400           | 0.4135             |
| 0.0500         | 0.5484             | 0.0700           | 0.5450             |
| 0.1100         | 0.6536             | 0.1200           | 0.6722             |
| 0.1700         | 0.7313             | 0.1800           | 0.7598             |
| 0.2200         | 0.7847             | 0.2100           | 0.8223             |
| 0.2700         | 0.8448             | 0.2700           | 0.8902             |
| 0.3200         | 0.8932             | 0.3100           | 0.9445             |
| 0.3600         | 0.9373             | 0.3700           | 0.9820             |
| 0.4100         | 0.9684             | 0.4200           | 0.9996             |
| 0.5100         | 1.0002             | 0.5300           | 1.0017             |
| 0.7200         | 1.0027             | 0.7300           | 1.0027             |
| 0.9100         | 1.0031             | 0.9400           | 1.0043             |
| 1.1100         | 1.0038             | 1.1500           | 0.9986             |
| 1.3000         | 1.0017             | 1.3500           | 0.9974             |
| 1.5300         | 1.0040             | 1.5500           | 1.0028             |
| 1.7400         | 1.0035             | 1.7500           | 1.0015             |
| 1.9400         | 1.0028             | 1.9500           | 1.0033             |
| 2.1400         | 1.0041             | 2.1600           | 1.0005             |
| 2.3500         | 1.0025             | 2.3700           | 1.0023             |
| 2.5500         | 1.0031             | 2.5800           | 1.0033             |

Flight 21 Test point 50

Sweep, deg = 20.0 Mach = 0.60 hp, ft = 10000. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 371.5 Rho = 3475000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4357                     | 0.1141                      | 0.0537                  | 0.3 x/c          |
| Outboard station rake | 0.4117                     | 0.1104                      | 0.0495                  | 0.3 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3995             | 0.0400           | 0.4030             |
| 0.0500         | 0.5291             | 0.0700           | 0.5597             |
| 0.1100         | 0.6657             | 0.1200           | 0.6930             |
| 0.1700         | 0.7581             | 0.1800           | 0.7828             |
| 0.2200         | 0.8171             | 0.2100           | 0.8368             |
| 0.2700         | 0.8675             | 0.2700           | 0.8976             |
| 0.3200         | 0.9166             | 0.3100           | 0.9455             |
| 0.3600         | 0.9556             | 0.3700           | 0.9791             |
| 0.4100         | 0.9786             | 0.4200           | 0.9966             |
| 0.5100         | 0.9995             | 0.5300           | 1.0000             |
| 0.7200         | 1.0032             | 0.7300           | 1.0031             |
| 0.9100         | 1.0017             | 0.9400           | 1.0042             |
| 1.1100         | 1.0030             | 1.1500           | 0.9978             |
| 1.3000         | 1.0014             | 1.3500           | 0.9993             |
| 1.5300         | 1.0018             | 1.5500           | 1.0034             |
| 1.7400         | 1.0015             | 1.7500           | 1.0037             |
| 1.9400         | 1.0016             | 1.9500           | 1.0040             |
| 2.1400         | 1.0025             | 2.1600           | 1.0010             |
| 2.3500         | 1.0024             | 2.3700           | 1.0041             |
| 2.5500         | 1.0028             | 2.5800           | 1.0038             |

Flight 21 Test point 51

Sweep, deg = 20.0 Mach = 0.59 hp, ft = 9800. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -4.6 QBAR, lb/ft<sup>2</sup> = 359.9 Rrho = 3422000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | 0.4841                        | 0.1508                         | 0.0600                     | 0.3 x/c             |
| Outboard station rake | 0.4775                        | 0.1549                         | 0.0619                     | 0.3 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.4319 | 0.0400           | 0.4212 |
| 0.0500         | 0.1292 | 0.0700           | 0.2019 |
| 0.1100         | 0.5331 | 0.1200           | 0.5437 |
| 0.1700         | 0.6847 | 0.1800           | 0.6851 |
| 0.2200         | 0.7654 | 0.2100           | 0.7487 |
| 0.2700         | 0.8267 | 0.2700           | 0.8237 |
| 0.3200         | 0.8874 | 0.3100           | 0.8789 |
| 0.3600         | 0.9329 | 0.3700           | 0.9227 |
| 0.4100         | 0.9618 | 0.4200           | 0.9603 |
| 0.5100         | 0.9968 | 0.5300           | 0.9921 |
| 0.7200         | 1.0030 | 0.7300           | 0.9994 |
| 0.9100         | 1.0037 | 0.9400           | 1.0026 |
| 1.1100         | 1.0040 | 1.1500           | 0.9936 |
| 1.3000         | 1.0023 | 1.3500           | 0.9975 |
| 1.5300         | 1.0057 | 1.5500           | 1.0006 |
| 1.7400         | 1.0054 | 1.7500           | 1.0018 |
| 1.9400         | 1.0031 | 1.9500           | 1.0026 |
| 2.1400         | 1.0041 | 2.1600           | 1.0026 |
| 2.3500         | 1.0046 | 2.3700           | 1.0029 |
| 2.5500         | 1.0056 | 2.5800           | 1.0044 |

Flight 21 Test point 52

Sweep, deg = 20.0 Mach = 0.61 hp, ft = 10100. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = 0.8 QBAR, lb/ft<sup>2</sup> = 373.4 Rnpu = 3480000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5460                     | 0.1395                      | 0.0694                  | 0.3 x/c          |
| Outboard station rake | 0.5675                     | 0.1528                      | 0.0688                  | 0.3 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.3638 | 0.0400           | 0.2800 |
| 0.0500         | 0.5010 | 0.0700           | 0.4766 |
| 0.1100         | 0.6355 | 0.1200           | 0.6199 |
| 0.1700         | 0.7174 | 0.1800           | 0.7106 |
| 0.2200         | 0.7685 | 0.2100           | 0.7545 |
| 0.2700         | 0.8156 | 0.2700           | 0.8120 |
| 0.3200         | 0.8593 | 0.3100           | 0.8584 |
| 0.3600         | 0.8988 | 0.3700           | 0.8970 |
| 0.4100         | 0.9281 | 0.4200           | 0.9336 |
| 0.5100         | 0.9824 | 0.5300           | 0.9845 |
| 0.7200         | 1.0014 | 0.7300           | 1.0021 |
| 0.9100         | 1.0014 | 0.9400           | 1.0043 |
| 1.1100         | 1.0028 | 1.1500           | 0.9971 |
| 1.3000         | 1.0013 | 1.3500           | 0.9975 |
| 1.5300         | 1.0021 | 1.5500           | 1.0018 |
| 1.7400         | 1.0025 | 1.7500           | 1.0018 |
| 1.9400         | 1.0007 | 1.9500           | 1.0038 |
| 2.1400         | 1.0012 | 2.1600           | 1.0011 |
| 2.3500         | 1.0017 | 2.3700           | 1.0032 |
| 2.5500         | 1.0025 | 2.5800           | 1.0027 |

Flight 22 Test point 1

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 4.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 173.4 Rrho = 16770

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9809                     | 0.2406                      | 0.1262                  | 0.2 x/c          |
| Outboard station rake | 0.9017                     | 0.1991                      | 0.1008                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5188             | 0.0400           | 0.5312             |
| 0.0500         | 0.5350             | 0.0700           | 0.5562             |
| 0.1100         | 0.5859             | 0.1200           | 0.6153             |
| 0.1700         | 0.6342             | 0.1800           | 0.6548             |
| 0.2200         | 0.6541             | 0.2100           | 0.6773             |
| 0.2700         | 0.6924             | 0.2700           | 0.7269             |
| 0.3200         | 0.7160             | 0.3100           | 0.7692             |
| 0.3600         | 0.7498             | 0.3700           | 0.7998             |
| 0.4100         | 0.7704             | 0.4200           | 0.8371             |
| 0.5100         | 0.8231             | 0.5300           | 0.8942             |
| 0.7200         | 0.9281             | 0.7300           | 0.9855             |
| 0.9100         | 0.9821             | 0.9400           | 1.0029             |
| 1.1100         | 1.0018             | 1.1500           | 0.9958             |
| 1.3000         | 1.0015             | 1.3500           | 0.9904             |
| 1.5300         | 1.0049             | 1.5500           | 0.9996             |
| 1.7400         | 1.0038             | 1.7500           | 1.0005             |
| 1.9400         | 1.0018             | 1.9500           | 1.0045             |
| 2.1400         | 1.0034             | 2.1600           | 1.0011             |
| 2.3500         | 0.9999             | 2.3700           | 1.0003             |
| 2.5500         | 1.0007             | 2.5800           | 1.0048             |

Flight 22 Test point 2

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 35100. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 168.1 Rnpu = 1641000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7482                     | 0.1687                      | 0.0911                  | 0.2 x/c          |
| Outboard station rake | 0.3899                     | 0.0892                      | 0.0423                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5707             | 0.0400           | 0.6427             |
| 0.0500         | 0.5816             | 0.0700           | 0.6740             |
| 0.1100         | 0.6446             | 0.1200           | 0.7562             |
| 0.1700         | 0.6945             | 0.1800           | 0.8224             |
| 0.2200         | 0.7231             | 0.2100           | 0.8630             |
| 0.2700         | 0.7654             | 0.2700           | 0.9230             |
| 0.3200         | 0.7941             | 0.3100           | 0.9632             |
| 0.3600         | 0.8351             | 0.3700           | 0.9820             |
| 0.4100         | 0.8619             | 0.4200           | 1.0014             |
| 0.5100         | 0.9130             | 0.5300           | 0.9999             |
| 0.7200         | 0.9909             | 0.7300           | 1.0013             |
| 0.9100         | 0.9995             | 0.9400           | 1.0066             |
| 1.1100         | 0.9992             | 1.1500           | 0.9957             |
| 1.3000         | 1.0016             | 1.3500           | 0.9911             |
| 1.5300         | 1.0046             | 1.5500           | 1.0023             |
| 1.7400         | 1.0015             | 1.7500           | 1.0053             |
| 1.9400         | 0.9997             | 1.9500           | 1.0041             |
| 2.1400         | 1.0008             | 2.1600           | 1.0020             |
| 2.3500         | 1.0003             | 2.3700           | 1.0028             |
| 2.5500         | 1.0018             | 2.5800           | 1.0055             |

Flight 22 Test point 3

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 34500. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 173.4 Rrho = 1683000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7305                     | 0.1584                      | 0.0848                  | 0.2 x/c          |
| Outboard station rake | 0.3321                     | 0.0787                      | 0.0364                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5638             | 0.0400           | 0.6597             |
| 0.0500         | 0.5846             | 0.0700           | 0.6910             |
| 0.1100         | 0.6398             | 0.1200           | 0.7834             |
| 0.1700         | 0.6983             | 0.1800           | 0.8545             |
| 0.2200         | 0.7319             | 0.2100           | 0.9006             |
| 0.2700         | 0.7774             | 0.2700           | 0.9507             |
| 0.3200         | 0.8076             | 0.3100           | 0.9858             |
| 0.3600         | 0.8507             | 0.3700           | 0.9935             |
| 0.4100         | 0.8854             | 0.4200           | 1.0024             |
| 0.5100         | 0.9368             | 0.5300           | 1.0017             |
| 0.7200         | 0.9974             | 0.7300           | 1.0012             |
| 0.9100         | 0.9966             | 0.9400           | 1.0045             |
| 1.1100         | 1.0002             | 1.1500           | 0.9952             |
| 1.3000         | 1.0003             | 1.3500           | 0.9914             |
| 1.5300         | 1.0032             | 1.5500           | 1.0020             |
| 1.7400         | 1.0010             | 1.7500           | 1.0010             |
| 1.9400         | 1.0017             | 1.9500           | 1.0035             |
| 2.1400         | 1.0010             | 2.1600           | 0.9988             |
| 2.3500         | 0.9993             | 2.3700           | 1.0008             |
| 2.5500         | 0.9993             | 2.5800           | 1.0041             |



Flight 22 Test point 4

Sweep, deg = 30.0 Mach = 0.71 hp, ft = 34900. Angle of attack, deg = 4.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 173.9 R<sub>pxu</sub> = 1676000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9596                     | 0.2137                      | 0.1103                  | 0.2 x/c          |
| Outboard station rake | 0.7604                     | 0.1874                      | 0.0922                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5037             | 0.0400           | 0.4961             |
| 0.0500         | 0.5400             | 0.0700           | 0.5400             |
| 0.1100         | 0.5850             | 0.1200           | 0.6207             |
| 0.1700         | 0.6394             | 0.1800           | 0.6726             |
| 0.2200         | 0.6672             | 0.2100           | 0.6954             |
| 0.2700         | 0.7114             | 0.2700           | 0.7465             |
| 0.3200         | 0.7383             | 0.3100           | 0.7878             |
| 0.3600         | 0.7769             | 0.3700           | 0.8183             |
| 0.4100         | 0.8069             | 0.4200           | 0.8633             |
| 0.5100         | 0.8636             | 0.5300           | 0.9226             |
| 0.7200         | 0.9698             | 0.7300           | 0.9909             |
| 0.9100         | 0.9944             | 0.9400           | 1.0028             |
| 1.1100         | 0.9987             | 1.1500           | 0.9957             |
| 1.3000         | 1.0000             | 1.3500           | 0.9933             |
| 1.5300         | 1.0025             | 1.5500           | 1.0025             |
| 1.7400         | 1.0031             | 1.7500           | 1.0039             |
| 1.9400         | 1.0002             | 1.9500           | 1.0044             |
| 2.1400         | 1.0009             | 2.1600           | 0.9996             |
| 2.3500         | 1.0011             | 2.3700           | 1.0008             |
| 2.5500         | 0.9992             | 2.5800           | 1.0060             |

Flight 22 Test point 5

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 34800. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 170.3 Rrho = 1659000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5772                     | 0.1409                      | 0.0730                  | 0.2 x/c          |
| Outboard station rake | 0.3008                     | 0.0706                      | 0.0313                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5485 | 0.0400           | 0.6631 |
| 0.0500         | 0.5901 | 0.0700           | 0.7173 |
| 0.1100         | 0.6520 | 0.1200           | 0.8077 |
| 0.1700         | 0.7110 | 0.1800           | 0.8839 |
| 0.2200         | 0.7508 | 0.2100           | 0.9328 |
| 0.2700         | 0.7992 | 0.2700           | 0.9793 |
| 0.3200         | 0.8400 | 0.3100           | 1.0013 |
| 0.3600         | 0.8862 | 0.3700           | 0.9987 |
| 0.4100         | 0.9137 | 0.4200           | 1.0031 |
| 0.5100         | 0.9679 | 0.5300           | 1.0029 |
| 0.7200         | 1.0042 | 0.7300           | 1.0025 |
| 0.9100         | 0.9982 | 0.9400           | 1.0035 |
| 1.1100         | 1.0046 | 1.1500           | 0.9973 |
| 1.3000         | 1.0031 | 1.3500           | 0.9923 |
| 1.5300         | 1.0065 | 1.5500           | 1.0027 |
| 1.7400         | 1.0053 | 1.7500           | 1.0043 |
| 1.9400         | 1.0023 | 1.9500           | 1.0055 |
| 2.1400         | 1.0057 | 2.1600           | 0.9995 |
| 2.3500         | 1.0003 | 2.3700           | 1.0005 |
| 2.5500         | 1.0020 | 2.5800           | 1.0066 |

Flight 22 Test point 6

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 33700. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 180.8 Rrho = 1740000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5661                     | 0.1413                      | 0.0730                  | 0.2 x/c          |
| Outboard station rake | 0.2968                     | 0.0650                      | 0.0284                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5618             | 0.0400           | 0.6923             |
| 0.0500         | 0.5856             | 0.0700           | 0.7424             |
| 0.1100         | 0.6525             | 0.1200           | 0.8324             |
| 0.1700         | 0.7126             | 0.1800           | 0.8989             |
| 0.2200         | 0.7468             | 0.2100           | 0.9476             |
| 0.2700         | 0.7967             | 0.2700           | 0.9854             |
| 0.3200         | 0.8349             | 0.3100           | 1.0027             |
| 0.3600         | 0.8771             | 0.3700           | 0.9999             |
| 0.4100         | 0.9142             | 0.4200           | 1.0014             |
| 0.5100         | 0.9714             | 0.5300           | 0.9969             |
| 0.7200         | 1.0027             | 0.7300           | 1.0042             |
| 0.9100         | 1.0013             | 0.9400           | 1.0054             |
| 1.1100         | 1.0044             | 1.1500           | 0.9979             |
| 1.3000         | 1.0039             | 1.3500           | 0.9921             |
| 1.5300         | 1.0042             | 1.5500           | 1.0028             |
| 1.7400         | 1.0045             | 1.7500           | 1.0022             |
| 1.9400         | 1.0023             | 1.9500           | 1.0040             |
| 2.1400         | 1.0041             | 2.1600           | 1.0018             |
| 2.3500         | 1.0001             | 2.3700           | 1.0020             |
| 2.5500         | 1.0013             | 2.5800           | 1.0014             |

Flight 22 Test point 7

Sweep, deg = 25.2 Mach = 0.71 hp, ft = 34900. Angle of attack, deg = 3.7  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 173.6 Rrho = 1676000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 1.1221                     | 0.2200                      | 0.1074                  | 0.2 x/c          |
| Outboard station rake | 0.7275                     | 0.2039                      | 0.0868                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.4021 | 0.0400           | 0.2232 |
| 0.0500         | 0.4751 | 0.0700           | 0.3991 |
| 0.1100         | 0.5472 | 0.1200           | 0.5436 |
| 0.1700         | 0.6231 | 0.1800           | 0.6286 |
| 0.2200         | 0.6561 | 0.2100           | 0.6648 |
| 0.2700         | 0.7005 | 0.2700           | 0.7261 |
| 0.3200         | 0.7311 | 0.3100           | 0.7815 |
| 0.3600         | 0.7816 | 0.3700           | 0.8230 |
| 0.4100         | 0.8047 | 0.4200           | 0.8720 |
| 0.5100         | 0.8726 | 0.5300           | 0.9424 |
| 0.7200         | 0.9856 | 0.7300           | 1.0007 |
| 0.9100         | 0.9932 | 0.9400           | 1.0023 |
| 1.1100         | 0.9977 | 1.1500           | 0.9952 |
| 1.3000         | 1.0046 | 1.3500           | 0.9922 |
| 1.5300         | 1.0020 | 1.5500           | 1.0028 |
| 1.7400         | 1.0015 | 1.7500           | 1.0009 |
| 1.9400         | 1.0013 | 1.9500           | 1.0023 |
| 2.1400         | 1.0013 | 2.1600           | 0.9983 |
| 2.3500         | 0.9985 | 2.3700           | 1.0012 |
| 2.5500         | 0.9999 | 2.5800           | 1.0041 |

Flight 22 Test point 8

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 34700. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 174.1 Rnpu = 1683000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7129                     | 0.1583                      | 0.0802                  | 0.2 x/c          |
| Outboard station rake | 0.2532                     | 0.0601                      | 0.0250                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.4806 | 0.0400           | 0.6819 |
| 0.0500         | 0.5433 | 0.0700           | 0.7562 |
| 0.1100         | 0.6108 | 0.1200           | 0.8559 |
| 0.1700         | 0.6824 | 0.1800           | 0.9272 |
| 0.2200         | 0.7257 | 0.2100           | 0.9640 |
| 0.2700         | 0.7788 | 0.2700           | 0.9944 |
| 0.3200         | 0.8140 | 0.3100           | 1.0022 |
| 0.3600         | 0.8666 | 0.3700           | 0.9984 |
| 0.4100         | 0.8973 | 0.4200           | 1.0008 |
| 0.5100         | 0.9628 | 0.5300           | 1.0011 |
| 0.7200         | 1.0011 | 0.7300           | 1.0033 |
| 0.9100         | 0.9966 | 0.9400           | 1.0050 |
| 1.1100         | 0.9999 | 1.1500           | 0.9961 |
| 1.3000         | 0.9978 | 1.3500           | 0.9900 |
| 1.5300         | 1.0034 | 1.5500           | 1.0029 |
| 1.7400         | 1.0025 | 1.7500           | 1.0026 |
| 1.9400         | 0.9988 | 1.9500           | 1.0028 |
| 2.1400         | 1.0010 | 2.1600           | 1.0000 |
| 2.3500         | 1.0016 | 2.3700           | 0.9983 |
| 2.5500         | 0.9973 | 2.5800           | 1.0021 |

Flight 22 Test point 9

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 34300. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 177.8 R<sub>npu</sub> = 1713000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip<br>0.2 x/c |
|-----------------------|-------------------------------|--------------------------------|----------------------------|--------------------------------|
| Middle station rake   | 0.7213                        | 0.1627                         | 0.0821                     | 0.2 x/c                        |
| Outboard station rake | 0.2958                        | 0.0698                         | 0.0301                     | none                           |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4645             | 0.0400           | 0.6336             |
| 0.0500         | 0.5303             | 0.0700           | 0.7130             |
| 0.1100         | 0.6132             | 0.1200           | 0.8183             |
| 0.1700         | 0.6779             | 0.1800           | 0.8975             |
| 0.2200         | 0.7185             | 0.2100           | 0.9437             |
| 0.2700         | 0.7770             | 0.2700           | 0.9847             |
| 0.3200         | 0.8106             | 0.3100           | 0.9994             |
| 0.3600         | 0.8562             | 0.3700           | 0.9979             |
| 0.4100         | 0.8926             | 0.4200           | 1.0056             |
| 0.5100         | 0.9561             | 0.5300           | 0.9987             |
| 0.7200         | 0.9998             | 0.7300           | 1.0032             |
| 0.9100         | 0.9977             | 0.9400           | 1.0034             |
| 1.1100         | 0.9990             | 1.1500           | 0.9988             |
| 1.3000         | 1.0015             | 1.3500           | 0.9942             |
| 1.5300         | 1.0008             | 1.5500           | 1.0021             |
| 1.7400         | 1.0028             | 1.7500           | 1.0018             |
| 1.9400         | 1.0010             | 1.9500           | 1.0041             |
| 2.1400         | 1.0005             | 2.1600           | 1.0024             |
| 2.3500         | 0.9968             | 2.3700           | 1.0010             |
| 2.5500         | 1.0001             | 2.5800           | 1.0029             |

Flight 22 Test point 10

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 3.2  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 173.1 Rrho = 1674000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7285                     | 0.2252                      | 0.0945                  | 0.2 x/c          |
| Outboard station rake | 0.5585                     | 0.1784                      | 0.0727                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.3291 | 0.0400           | 0.5606 |
| 0.0500         | 0.1879 | 0.0700           | 0.3310 |
| 0.1100         | 0.4520 | 0.1200           | 0.4155 |
| 0.1700         | 0.5774 | 0.1800           | 0.5996 |
| 0.2200         | 0.6380 | 0.2100           | 0.6762 |
| 0.2700         | 0.7004 | 0.2700           | 0.7602 |
| 0.3200         | 0.7424 | 0.3100           | 0.8294 |
| 0.3600         | 0.7891 | 0.3700           | 0.8836 |
| 0.4100         | 0.8301 | 0.4200           | 0.9365 |
| 0.5100         | 0.9069 | 0.5300           | 0.9880 |
| 0.7200         | 0.9968 | 0.7300           | 0.9994 |
| 0.9100         | 0.9969 | 0.9400           | 1.0051 |
| 1.1100         | 1.0013 | 1.1500           | 0.9948 |
| 1.3000         | 1.0007 | 1.3500           | 0.9929 |
| 1.5300         | 1.0017 | 1.5500           | 1.0043 |
| 1.7400         | 1.0015 | 1.7500           | 1.0019 |
| 1.9400         | 0.9995 | 1.9500           | 1.0064 |
| 2.1400         | 1.0019 | 2.1600           | 1.0021 |
| 2.3500         | 1.0001 | 2.3700           | 1.0030 |
| 2.5500         | 0.9996 | 2.5800           | 1.0022 |

Flight 22 Test point 11

Sweep, deg = 20.0 Mach = 0.71 hp, ft = 34800. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 175.3 Rrho = 1688000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7220                     | 0.1992                      | 0.0857                  | 0.2 x/c          |
| Outboard station rake | 0.3125                     | 0.0912                      | 0.0349                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2214             | 0.0400           | 0.3585             |
| 0.0500         | 0.2909             | 0.0700           | 0.5943             |
| 0.1100         | 0.5092             | 0.1200           | 0.7670             |
| 0.1700         | 0.6241             | 0.1800           | 0.8704             |
| 0.2200         | 0.6751             | 0.2100           | 0.9220             |
| 0.2700         | 0.7332             | 0.2700           | 0.9706             |
| 0.3200         | 0.7782             | 0.3100           | 0.9980             |
| 0.3600         | 0.8298             | 0.3700           | 0.9981             |
| 0.4100         | 0.8687             | 0.4200           | 1.0041             |
| 0.5100         | 0.9443             | 0.5300           | 0.9986             |
| 0.7200         | 0.9996             | 0.7300           | 1.0029             |
| 0.9100         | 0.9955             | 0.9400           | 1.0062             |
| 1.1100         | 1.0010             | 1.1500           | 0.9975             |
| 1.3000         | 0.9995             | 1.3500           | 0.9932             |
| 1.5300         | 1.0044             | 1.5500           | 1.0048             |
| 1.7400         | 1.0045             | 1.7500           | 1.0065             |
| 1.9400         | 0.9968             | 1.9500           | 1.0066             |
| 2.1400         | 1.0007             | 2.1600           | 1.0024             |
| 2.3500         | 1.0004             | 2.3700           | 1.0043             |
| 2.5500         | 0.9977             | 2.5800           | 1.0062             |



Flight 22 Test point 12

Sweep, deg = 20.0 Mach = 0.76 hp, ft = 34900. Angle of attack, deg = 2.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 199.5 Rrho = 1811000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9146                     | 0.3675                      | 0.1165                  | 0.2 X/c          |
| Outboard station rake | 0.7290                     | 0.2723                      | 0.0830                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2091             | 0.0400           | 0.4102             |
| 0.0500         | 0.1599             | 0.0700           | 0.3826             |
| 0.1100         | 0.1836             | 0.1200           | 0.0702             |
| 0.1700         | 0.3021             | 0.1800           | 0.3203             |
| 0.2200         | 0.3540             | 0.2100           | 0.4294             |
| 0.2700         | 0.4337             | 0.2700           | 0.5800             |
| 0.3200         | 0.4751             | 0.3100           | 0.6821             |
| 0.3600         | 0.5568             | 0.3700           | 0.7718             |
| 0.4100         | 0.6121             | 0.4200           | 0.3443             |
| 0.5100         | 0.7364             | 0.5300           | 0.9431             |
| 0.7200         | 0.9679             | 0.7300           | 1.0003             |
| 0.9100         | 0.9993             | 0.9400           | 1.0046             |
| 1.1100         | 1.0031             | 1.1500           | 0.9999             |
| 1.3000         | 1.0025             | 1.3500           | 0.9955             |
| 1.5300         | 1.0026             | 1.5500           | 1.0024             |
| 1.7400         | 1.0042             | 1.7500           | 0.9999             |
| 1.9400         | 1.0019             | 1.9500           | 1.0015             |
| 2.1400         | 1.0037             | 2.1600           | 0.9982             |
| 2.3500         | 0.9915             | 2.3700           | 0.9981             |
| 2.5500         | 0.9912             | 2.5800           | 0.9996             |

Flight 22 Test point 13

Sweep, deg = 20.0 Mach = 0.76 hp, ft = 35200. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 197.4 Rrho = 1794000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7191                     | 0.2238                      | 0.0903                  | 0.2 x/c          |
| Outboard station rake | 0.3850                     | 0.1026                      | 0.0399                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2672             | 0.0400           | 0.3125             |
| 0.0500         | 0.1887             | 0.0700           | 0.5682             |
| 0.1100         | 0.4494             | 0.1200           | 0.7433             |
| 0.1700         | 0.5765             | 0.1800           | 0.8371             |
| 0.2200         | 0.6341             | 0.2100           | 0.8854             |
| 0.2700         | 0.6896             | 0.2700           | 0.9420             |
| 0.3200         | 0.7438             | 0.3100           | 0.9739             |
| 0.3600         | 0.7985             | 0.3700           | 0.9877             |
| 0.4100         | 0.8403             | 0.4200           | 1.0004             |
| 0.5100         | 0.9251             | 0.5300           | 0.9998             |
| 0.7200         | 1.0003             | 0.7300           | 1.0039             |
| 0.9100         | 0.9975             | 0.9400           | 1.0058             |
| 1.1100         | 0.9997             | 1.1500           | 0.9969             |
| 1.3000         | 1.0021             | 1.3500           | 0.9923             |
| 1.5300         | 1.0039             | 1.5500           | 1.0036             |
| 1.7400         | 0.9999             | 1.7500           | 1.0027             |
| 1.9400         | 0.9976             | 1.9500           | 1.0040             |
| 2.1400         | 1.0005             | 2.1600           | 0.9994             |
| 2.3500         | 0.9990             | 2.3700           | 0.9985             |
| 2.5500         | 0.9995             | 2.5800           | 1.0050             |

Flight 22 Test point 14

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 35300. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 191.4 Rrho = 1757000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7251                     | 0.2279                      | 0.0922                  | 0.2 x/c          |
| Outboard station rake | 0.3986                     | 0.1223                      | 0.0436                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2954             | 0.0400           | 0.1801             |
| 0.0500         | 0.1652             | 0.0700           | 0.4597             |
| 0.1100         | 0.4466             | 0.1200           | 0.6843             |
| 0.1700         | 0.5672             | 0.1800           | 0.7970             |
| 0.2200         | 0.6269             | 0.2100           | 0.8481             |
| 0.2700         | 0.6883             | 0.2700           | 0.9115             |
| 0.3200         | 0.7427             | 0.3100           | 0.9540             |
| 0.3600         | 0.7922             | 0.3700           | 0.9763             |
| 0.4100         | 0.8325             | 0.4200           | 0.9941             |
| 0.5100         | 0.9158             | 0.5300           | 0.9991             |
| 0.7200         | 0.9982             | 0.7300           | 1.0017             |
| 0.9100         | 0.9975             | 0.9400           | 1.0023             |
| 1.1100         | 1.0017             | 1.1500           | 0.9971             |
| 1.3000         | 1.0003             | 1.3500           | 0.9909             |
| 1.5300         | 1.0007             | 1.5500           | 1.0037             |
| 1.7400         | 1.0025             | 1.7500           | 1.0030             |
| 1.9400         | 0.9993             | 1.9500           | 1.0039             |
| 2.1400         | 1.0004             | 2.1600           | 0.9978             |
| 2.3500         | 0.9982             | 2.3700           | 1.0011             |
| 2.5500         | 1.0011             | 2.5800           | 1.0055             |

Flight 22 Test point 15

Sweep, deg = 25.3 Mach = 0.75 hp, ft = 34900. Angle of attack, deg = 2.9  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 195.5 Rrho = 1789000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7228                     | 0.2022                      | 0.0972                  | 0.2 x/c          |
| Outboard station rake | 0.6408                     | 0.1123                      | 0.0557                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4134             | 0.0400           | 0.5903             |
| 0.0500         | 0.4779             | 0.0700           | 0.6816             |
| 0.1100         | 0.5636             | 0.1200           | 0.7742             |
| 0.1700         | 0.6366             | 0.1800           | 0.8283             |
| 0.2200         | 0.6702             | 0.2100           | 0.8485             |
| 0.2700         | 0.7162             | 0.2700           | 0.8807             |
| 0.3200         | 0.7508             | 0.3100           | 0.9084             |
| 0.3600         | 0.7917             | 0.3700           | 0.9252             |
| 0.4100         | 0.8258             | 0.4200           | 0.9491             |
| 0.5100         | 0.9037             | 0.5300           | 0.9731             |
| 0.7200         | 0.9989             | 0.7300           | 0.9993             |
| 0.9100         | 0.9997             | 0.9400           | 1.0062             |
| 1.1100         | 1.0014             | 1.1500           | 1.0007             |
| 1.3000         | 1.0036             | 1.3500           | 0.9951             |
| 1.5300         | 1.0025             | 1.5500           | 1.0046             |
| 1.7400         | 1.0026             | 1.7500           | 1.0039             |
| 1.9400         | 0.9993             | 1.9500           | 1.0056             |
| 2.1400         | 0.9989             | 2.1600           | 1.0041             |
| 2.3500         | 0.9946             | 2.3700           | 1.0029             |
| 2.5500         | 0.9986             | 2.5800           | 1.0046             |

Flight 22 Test point 16

Sweep, deg = 25.3 Mach = 0.75 hp, ft = 34800. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 198.7 Rrho = 1809000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7219                     | 0.1795                      | 0.0859                  | 0.2 x/c          |
| Outboard station rake | 0.2974                     | 0.0700                      | 0.0299                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4109             | 0.0400           | 0.6367             |
| 0.0500         | 0.4712             | 0.0700           | 0.7195             |
| 0.1100         | 0.5731             | 0.1200           | 0.8209             |
| 0.1700         | 0.6487             | 0.1800           | 0.8972             |
| 0.2200         | 0.6969             | 0.2100           | 0.9424             |
| 0.2700         | 0.7432             | 0.2700           | 0.9836             |
| 0.3200         | 0.7912             | 0.3100           | 1.0004             |
| 0.3600         | 0.8385             | 0.3700           | 1.0014             |
| 0.4100         | 0.8794             | 0.4200           | 1.0045             |
| 0.5100         | 0.9491             | 0.5300           | 1.0031             |
| 0.7200         | 0.9996             | 0.7300           | 0.9995             |
| 0.9100         | 0.9985             | 0.9400           | 1.0059             |
| 1.1100         | 0.9999             | 1.1500           | 0.9984             |
| 1.3000         | 1.0012             | 1.3500           | 0.9929             |
| 1.5300         | 1.0001             | 1.5500           | 1.0018             |
| 1.7400         | 1.0014             | 1.7500           | 1.0013             |
| 1.9400         | 1.0001             | 1.9500           | 1.0024             |
| 2.1400         | 1.0002             | 2.1600           | 1.0004             |
| 2.3500         | 0.9991             | 2.3700           | 1.0003             |
| 2.5500         | 0.9998             | 2.5800           | 1.0040             |

Flight 22 Test point 17

Sweep, deg = 25.3 Mach = 0.75 hp, ft = 34100. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 203.7 Rrho = 1850000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7242                     | 0.1863                      | 0.0883                  | 0.2 x/c          |
| Outboard station rake | 0.3211                     | 0.0818                      | 0.0351                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3952             | 0.0400           | 0.5722             |
| 0.0500         | 0.4755             | 0.0700           | 0.6747             |
| 0.1100         | 0.5666             | 0.1200           | 0.7864             |
| 0.1700         | 0.6359             | 0.1800           | 0.8625             |
| 0.2200         | 0.6813             | 0.2100           | 0.9159             |
| 0.2700         | 0.7357             | 0.2700           | 0.9648             |
| 0.3200         | 0.7780             | 0.3100           | 0.9906             |
| 0.3600         | 0.8288             | 0.3700           | 0.9962             |
| 0.4100         | 0.8661             | 0.4200           | 1.0023             |
| 0.5100         | 0.9435             | 0.5300           | 0.9984             |
| 0.7200         | 0.9990             | 0.7300           | 1.0012             |
| 0.9100         | 0.9974             | 0.9400           | 1.0035             |
| 1.1100         | 1.0001             | 1.1500           | 0.9971             |
| 1.3000         | 0.9999             | 1.3500           | 0.9946             |
| 1.5300         | 1.0042             | 1.5500           | 1.0016             |
| 1.7400         | 0.9994             | 1.7500           | 1.0034             |
| 1.9400         | 1.0009             | 1.9500           | 1.0058             |
| 2.1400         | 1.0001             | 2.1600           | 1.0008             |
| 2.3500         | 0.9976             | 2.3700           | 1.0020             |
| 2.5500         | 1.0013             | 2.5800           | 1.0025             |

Flight 22 Test point 18

Sweep, deg = 30.4 Mach = 0.76 hp, ft = 34900. Angle of attack, deg = 3.4  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 200.1 Rrho = 1816000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7221                     | 0.1848                      | 0.0920                  | 0.2 x/c          |
| Outboard station rake | 0.4641                     | 0.1329                      | 0.0501                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5005             | 0.0400           | 0.5014             |
| 0.0500         | 0.5285             | 0.0700           | 0.5608             |
| 0.1100         | 0.6014             | 0.1200           | 0.6546             |
| 0.1700         | 0.6550             | 0.1800           | 0.7214             |
| 0.2200         | 0.6920             | 0.2100           | 0.7709             |
| 0.2700         | 0.7404             | 0.2700           | 0.8330             |
| 0.3200         | 0.7746             | 0.3100           | 0.8905             |
| 0.3600         | 0.8152             | 0.3700           | 0.9318             |
| 0.4100         | 0.8457             | 0.4200           | 0.9693             |
| 0.5100         | 0.9217             | 0.5300           | 1.0018             |
| 0.7200         | 0.9993             | 0.7300           | 1.0048             |
| 0.9100         | 0.9968             | 0.9400           | 1.0057             |
| 1.1100         | 1.0007             | 1.1500           | 0.9990             |
| 1.3000         | 1.0006             | 1.3500           | 0.9968             |
| 1.5300         | 1.0016             | 1.5500           | 1.0047             |
| 1.7400         | 1.0006             | 1.7500           | 1.0035             |
| 1.9400         | 1.0020             | 1.9500           | 1.0064             |
| 2.1400         | 0.9977             | 2.1600           | 1.0023             |
| 2.3500         | 0.9996             | 2.3700           | 1.0024             |
| 2.5500         | 1.0010             | 2.5800           | 1.0033             |

Flight 22 Test point 19

Sweep, deg = 30.4 Mach = 0.75 hp, ft = 34000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 206.2 Rrho = 1869000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7264                     | 0.1760                      | 0.0900                  | 0.2 x/c          |
| Outboard station rake | 0.4797                     | 0.1312                      | 0.0614                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5274             | 0.0400           | 0.5449             |
| 0.0500         | 0.5584             | 0.0700           | 0.5960             |
| 0.1100         | 0.6139             | 0.1200           | 0.6655             |
| 0.1700         | 0.6701             | 0.1800           | 0.7238             |
| 0.2200         | 0.7068             | 0.2100           | 0.7714             |
| 0.2700         | 0.7491             | 0.2700           | 0.8310             |
| 0.3200         | 0.7858             | 0.3100           | 0.8832             |
| 0.3600         | 0.8282             | 0.3700           | 0.9225             |
| 0.4100         | 0.8598             | 0.4200           | 0.9595             |
| 0.5100         | 0.9250             | 0.5300           | 0.9998             |
| 0.7200         | 0.9981             | 0.7300           | 1.0064             |
| 0.9100         | 0.9981             | 0.9400           | 1.0079             |
| 1.1100         | 1.0006             | 1.1500           | 0.9996             |
| 1.3000         | 0.9998             | 1.3500           | 0.9941             |
| 1.5300         | 1.0018             | 1.5500           | 1.0044             |
| 1.7400         | 1.0014             | 1.7500           | 1.0051             |
| 1.9400         | 1.0017             | 1.9500           | 1.0087             |
| 2.1400         | 1.0001             | 2.1600           | 1.0030             |
| 2.3500         | 0.9989             | 2.3700           | 1.0033             |
| 2.5500         | 0.9996             | 2.5800           | 1.0082             |



Flight 22 Test point 20

Sweep, deg = 30.4 Mach = 0.76 hp,  $\rho t = 33800$ , Angle of attack, deg = 1.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 210.4 Rnpu = 1895000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7234                     | 0.1700                      | 0.0853                  | 0.2 x/c          |
| Outboard station rake | 0.4157                     | 0.1188                      | 0.0532                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5158             | 0.0400           | 0.5216             |
| 0.0500         | 0.5437             | 0.0700           | 0.5807             |
| 0.1100         | 0.6062             | 0.1200           | 0.6734             |
| 0.1700         | 0.6684             | 0.1800           | 0.7431             |
| 0.2200         | 0.7072             | 0.2100           | 0.7968             |
| 0.2700         | 0.7577             | 0.2700           | 0.8655             |
| 0.3200         | 0.7961             | 0.3100           | 0.9270             |
| 0.3600         | 0.8424             | 0.3700           | 0.9704             |
| 0.4100         | 0.8769             | 0.4200           | 0.9979             |
| 0.5100         | 0.9475             | 0.5300           | 1.0032             |
| 0.7200         | 0.9993             | 0.7300           | 1.0043             |
| 0.9100         | 0.9974             | 0.9400           | 1.0050             |
| 1.1100         | 0.9999             | 1.1500           | 1.0016             |
| 1.3000         | 1.0011             | 1.3500           | 0.9943             |
| 1.5300         | 1.0022             | 1.5500           | 1.0030             |
| 1.7400         | 1.0009             | 1.7500           | 1.0048             |
| 1.9400         | 1.0000             | 1.9500           | 1.0073             |
| 2.1400         | 1.0004             | 2.1600           | 1.0025             |
| 2.3500         | 0.9994             | 2.3700           | 1.0027             |
| 2.5500         | 0.9995             | 2.5800           | 1.0030             |

Flight 22 Test point 21

Sweep, deg = 34.7 Mach = 0.75 hp, ft = 34900. Angle of attack, deg = 3.4  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 197.5 Rrho = 1804000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9612                     | 0.2396                      | 0.1211                  | 0.2 x/c          |
| Outboard station rake | 0.7396                     | 0.1975                      | 0.0957                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5026             | 0.0400           | 0.5074             |
| 0.0500         | 0.5283             | 0.0700           | 0.5403             |
| 0.1100         | 0.5753             | 0.1200           | 0.5983             |
| 0.1700         | 0.6170             | 0.1800           | 0.6399             |
| 0.2200         | 0.6406             | 0.2100           | 0.6768             |
| 0.2700         | 0.6826             | 0.2700           | 0.7204             |
| 0.3200         | 0.7117             | 0.3100           | 0.7707             |
| 0.3600         | 0.7472             | 0.3700           | 0.8033             |
| 0.4100         | 0.7737             | 0.4200           | 0.8441             |
| 0.5100         | 0.8302             | 0.5300           | 0.9125             |
| 0.7200         | 0.9467             | 0.7300           | 0.9964             |
| 0.9100         | 0.9897             | 0.9400           | 1.0035             |
| 1.1100         | 1.0004             | 1.1500           | 0.9969             |
| 1.3000         | 1.0015             | 1.3500           | 0.9927             |
| 1.5300         | 1.0038             | 1.5500           | 1.0011             |
| 1.7400         | 0.9997             | 1.7500           | 1.0031             |
| 1.9400         | 1.0007             | 1.9500           | 1.0037             |
| 2.1400         | 1.0026             | 2.1600           | 1.0016             |
| 2.3500         | 1.0015             | 2.3700           | 0.9990             |
| 2.5500         | 1.0002             | 2.5800           | 1.0021             |

Flight 22 Test point 22

Sweep, deg = 34.7 Mach = 0.75 hp, ft = 34000. Angle of attack, deg = -0.5  
 Angle of sideslip, deg = 0.4 QBAR, lb/ft<sup>2</sup> = 204.2 Rnpu = 1858000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7311                     | 0.1730                      | 0.0907                  | 0.2 x/c          |
| Outboard station rake | 0.5110                     | 0.1326                      | 0.0643                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5483 | 0.0400           | 0.5778 |
| 0.0500         | 0.5667 | 0.0700           | 0.6091 |
| 0.1100         | 0.6274 | 0.1200           | 0.6818 |
| 0.1700         | 0.6800 | 0.1800           | 0.7298 |
| 0.2200         | 0.7187 | 0.2100           | 0.7649 |
| 0.2700         | 0.7583 | 0.2700           | 0.8246 |
| 0.3200         | 0.7918 | 0.3100           | 0.8694 |
| 0.3600         | 0.8324 | 0.3700           | 0.9058 |
| 0.4100         | 0.8558 | 0.4200           | 0.9427 |
| 0.5100         | 0.9173 | 0.5300           | 0.9902 |
| 0.7200         | 0.9963 | 0.7300           | 1.0044 |
| 0.9100         | 0.9973 | 0.9400           | 1.0041 |
| 1.1100         | 1.0005 | 1.1500           | 0.9989 |
| 1.3000         | 0.9995 | 1.3500           | 0.9936 |
| 1.5300         | 1.0019 | 1.5500           | 1.0003 |
| 1.7400         | 1.0026 | 1.7500           | 1.0017 |
| 1.9400         | 1.0009 | 1.9500           | 1.0054 |
| 2.1400         | 1.0024 | 2.1600           | 0.9992 |
| 2.3500         | 0.9990 | 2.3700           | 1.0000 |
| 2.5500         | 0.9996 | 2.5800           | 1.0022 |

Flight 22 Test point 23

Sweep, deg = 34.6 Mach = 0.75 hp, ft = 33700. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 208.9 Rnpu = 1886000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9936                     | 0.1947                      | 0.1009                  | 0.2 x/c          |
| Outboard station rake | 0.5890                     | 0.1527                      | 0.0742                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5296             | 0.0400           | 0.5614             |
| 0.0500         | 0.5536             | 0.0700           | 0.5861             |
| 0.1100         | 0.6035             | 0.1200           | 0.6501             |
| 0.1700         | 0.6613             | 0.1800           | 0.6986             |
| 0.2200         | 0.6896             | 0.2100           | 0.7311             |
| 0.2700         | 0.7338             | 0.2700           | 0.7888             |
| 0.3200         | 0.7703             | 0.2100           | 0.8366             |
| 0.3600         | 0.8029             | 0.3700           | 0.8724             |
| 0.4100         | 0.8341             | 0.4200           | 0.9110             |
| 0.5100         | 0.8883             | 0.5300           | 0.9713             |
| 0.7200         | 0.9847             | 0.7300           | 1.0039             |
| 0.9100         | 0.9958             | 0.9400           | 1.0074             |
| 1.1100         | 0.9994             | 1.1500           | 0.9985             |
| 1.3000         | 1.0014             | 1.3500           | 0.9944             |
| 1.5300         | 1.0010             | 1.5500           | 1.0056             |
| 1.7400         | 1.0025             | 1.7500           | 1.0034             |
| 1.9400         | 0.9989             | 1.9500           | 1.0060             |
| 2.1400         | 1.0019             | 2.1600           | 1.0015             |
| 2.3500         | 1.0000             | 2.3700           | 1.0031             |
| 2.5500         | 0.9992             | 2.5800           | 1.0050             |

Flight 22 Test point 24

Sweep, deg = 34.5 Mach = 0.81 hp, ft = 35000. Angle of attack, deg = 2.5  
 Angle of sideslip, deg = 0.4 QBAR, lb/ft<sup>2</sup> = 227.2 Rnpu = 1950000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9239                     | 0.2885                      | 0.1289                  | 0.2 x/c          |
| Outboard station rake | 0.7404                     | 0.2510                      | 0.1085                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4195             | 0.0400           | 0.4219             |
| 0.0500         | 0.4261             | 0.0700           | 0.4427             |
| 0.1100         | 0.4730             | 0.1200           | 0.4934             |
| 0.1700         | 0.5115             | 0.1800           | 0.5351             |
| 0.2200         | 0.5475             | 0.2100           | 0.5636             |
| 0.2700         | 0.5953             | 0.2700           | 0.6215             |
| 0.3200         | 0.6292             | 0.3100           | 0.6700             |
| 0.3600         | 0.6695             | 0.3700           | 0.7157             |
| 0.4100         | 0.7083             | 0.4200           | 0.7760             |
| 0.5100         | 0.7868             | 0.5300           | 0.8740             |
| 0.7200         | 0.9454             | 0.7300           | 0.9996             |
| 0.9100         | 0.9966             | 0.9400           | 1.0069             |
| 1.1100         | 1.0021             | 1.1500           | 1.0005             |
| 1.3000         | 1.0003             | 1.3500           | 0.9963             |
| 1.5300         | 1.0022             | 1.5500           | 1.0015             |
| 1.7400         | 0.9987             | 1.7500           | 1.0012             |
| 1.9400         | 1.0011             | 1.9500           | 1.0029             |
| 2.1400         | 1.0007             | 2.1600           | 0.9943             |
| 2.3500         | 0.9993             | 2.3700           | 0.9977             |
| 2.5500         | 0.9989             | 2.5800           | 0.9987             |

Flight 22 Test point 25

Sweep, deg = 34.5 Mach = 0.81 hp, ft = 35000. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = 0.5 QBAR, lb/ft<sup>2</sup> = 226.5 Rrho = 1946000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9354                     | 0.2119                      | 0.1045                  | 0.2 x/c          |
| Outboard station rake | 0.5757                     | 0.1657                      | 0.0767                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5028             | 0.0400           | 0.5126             |
| 0.0500         | 0.5181             | 0.0700           | 0.5537             |
| 0.1100         | 0.5744             | 0.1200           | 0.6153             |
| 0.1700         | 0.6266             | 0.1800           | 0.6705             |
| 0.2200         | 0.6563             | 0.2100           | 0.7037             |
| 0.2700         | 0.7023             | 0.2700           | 0.7628             |
| 0.3200         | 0.7397             | 0.3100           | 0.8129             |
| 0.3600         | 0.7795             | 0.3700           | 0.8575             |
| 0.4100         | 0.8120             | 0.4200           | 0.9064             |
| 0.5100         | 0.8806             | 0.5300           | 0.9746             |
| 0.7200         | 0.9846             | 0.7300           | 1.0050             |
| 0.9100         | 0.9984             | 0.9400           | 1.0067             |
| 1.1100         | 1.0004             | 1.1500           | 0.9967             |
| 1.3000         | 0.9992             | 1.3500           | 0.9962             |
| 1.5300         | 1.0016             | 1.5500           | 1.0035             |
| 1.7400         | 1.0022             | 1.7500           | 1.0027             |
| 1.9400         | 0.9998             | 1.9500           | 1.0050             |
| 2.1400         | 0.9998             | 2.1600           | 1.0016             |
| 2.3500         | 1.0001             | 2.3700           | 1.0035             |
| 2.5500         | 0.9986             | 2.5800           | 1.0045             |

Flight 22 Test point 26

Sweep, deg = 34.6 Mach = 0.81 hp, ft = 34700. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.5 QBAR, lb/ft<sup>2</sup> = 229.8 Rnpu = 1971000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9344                     | 0.2332                      | 0.1125                  | 0.2 x/c          |
| Outboard station rake | 0.7299                     | 0.1932                      | 0.0902                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.4831 | 0.0400           | 0.4918 |
| 0.0500         | 0.4982 | 0.0700           | 0.5251 |
| 0.1100         | 0.5473 | 0.1200           | 0.5855 |
| 0.1700         | 0.6000 | 0.1800           | 0.6321 |
| 0.2200         | 0.6339 | 0.2100           | 0.6701 |
| 0.2700         | 0.6719 | 0.2700           | 0.7267 |
| 0.3200         | 0.7079 | 0.3100           | 0.7706 |
| 0.3600         | 0.7451 | 0.3700           | 0.8172 |
| 0.4100         | 0.7803 | 0.4200           | 0.8632 |
| 0.5100         | 0.8521 | 0.5300           | 0.9389 |
| 0.7200         | 0.9759 | 0.7300           | 1.0000 |
| 0.9100         | 0.9975 | 0.9400           | 1.0035 |
| 1.1100         | 1.0012 | 1.1500           | 0.9970 |
| 1.3000         | 0.9998 | 1.3500           | 0.9927 |
| 1.5300         | 1.0020 | 1.5500           | 1.0006 |
| 1.7400         | 1.0001 | 1.7500           | 1.0002 |
| 1.9400         | 1.0003 | 1.9500           | 1.0045 |
| 2.1400         | 1.0009 | 2.1600           | 0.9990 |
| 2.3500         | 1.0009 | 2.3700           | 1.0008 |
| 2.5500         | 0.9973 | 2.5800           | 1.0017 |

Flight 22 Test point 27

Sweep, deg = 30.4 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 2.3  
 Angle of sideslip, deg = 0.5 QBAR, lb/ft<sup>2</sup> = 224.7 Rrho = 1938000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.8659                     | 0.2788                      | 0.1129                  | 0.2 x/c          |
| Outboard station rake | 0.4532                     | 0.1707                      | 0.0605                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3590             | 0.0400           | 0.2928             |
| 0.0500         | 0.3723             | 0.0700           | 0.3488             |
| 0.1100         | 0.4073             | 0.1200           | 0.4783             |
| 0.1700         | 0.4662             | 0.1800           | 0.5887             |
| 0.2200         | 0.5013             | 0.2100           | 0.6859             |
| 0.2700         | 0.5636             | 0.2700           | 0.8042             |
| 0.3200         | 0.6115             | 0.3100           | 0.8870             |
| 0.3600         | 0.6700             | 0.3700           | 0.9423             |
| 0.4100         | 0.7222             | 0.4200           | 0.9780             |
| 0.5100         | 0.8372             | 0.5300           | 0.9998             |
| 0.7200         | 0.9973             | 0.7300           | 1.0082             |
| 0.9100         | 1.0007             | 0.9400           | 1.0108             |
| 1.1100         | 1.0013             | 1.1500           | 1.0015             |
| 1.3000         | 1.0003             | 1.3500           | 0.9918             |
| 1.5300         | 1.0033             | 1.5500           | 0.9996             |
| 1.7400         | 1.0003             | 1.7500           | 0.9968             |
| 1.9400         | 1.0006             | 1.9500           | 0.9992             |
| 2.1400         | 1.0017             | 2.1600           | 0.9969             |
| 2.3500         | 0.9976             | 2.3700           | 0.9975             |
| 2.5500         | 0.9942             | 2.5800           | 0.9981             |



Flight 22 Test point 28

Sweep, deg = 30.4 Mach = 0.80 hp, ft = 34500. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.6 QBAR, lb/ft<sup>2</sup> = 230.1 Rnpu = 1975000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9223                     | 0.2383                      | 0.1092                  | 0.2 X/c          |
| Outboard station rake | 0.5600                     | 0.1784                      | 0.0788                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.4309 | 0.0400           | 0.4453 |
| 0.0500         | 0.4517 | 0.0700           | 0.4933 |
| 0.1100         | 0.5002 | 0.1200           | 0.5767 |
| 0.1700         | 0.5603 | 0.1800           | 0.6325 |
| 0.2200         | 0.5992 | 0.2100           | 0.6727 |
| 0.2700         | 0.6529 | 0.2700           | 0.7364 |
| 0.3200         | 0.6906 | 0.3100           | 0.7907 |
| 0.3600         | 0.7426 | 0.3700           | 0.8456 |
| 0.4100         | 0.7771 | 0.4200           | 0.9030 |
| 0.5100         | 0.8643 | 0.5300           | 0.9807 |
| 0.7200         | 0.9907 | 0.7300           | 1.0023 |
| 0.9100         | 0.9995 | 0.9400           | 1.0050 |
| 1.1100         | 1.0019 | 1.1500           | 0.9958 |
| 1.3000         | 0.9993 | 1.3500           | 0.9915 |
| 1.5300         | 0.9989 | 1.5500           | 1.0014 |
| 1.7400         | 1.0012 | 1.7500           | 1.0003 |
| 1.9400         | 0.9991 | 1.9500           | 1.0027 |
| 2.1400         | 1.0020 | 2.1600           | 0.9998 |
| 2.3500         | 0.9996 | 2.3700           | 0.9991 |
| 2.5500         | 0.9983 | 2.5800           | 1.0020 |

Flight 22 Test point 29

Sweep, deg = 30.4 Mach = 0.81 hp, ft = 34400. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.5 QBAR, lb/ft<sup>2</sup> = 233.9 Rnpu = 1997000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9391                     | 0.2745                      | 0.1145                  | 0.2 X/c          |
| Outboard station rake | 0.6804                     | 0.2658                      | 0.0791                  | none             |

|  | Middle station |                    | Outboard station |                    |
|--|----------------|--------------------|------------------|--------------------|
|  | Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
|  | 0.0300         | 0.3651             | 0.0400           | 0.0725             |
|  | 0.0500         | 0.3849             | 0.0700           | 0.1715             |
|  | 0.1100         | 0.4230             | 0.1200           | 0.3073             |
|  | 0.1700         | 0.4804             | 0.1800           | 0.3970             |
|  | 0.2200         | 0.5223             | 0.2100           | 0.4569             |
|  | 0.2700         | 0.5828             | 0.2700           | 0.5535             |
|  | 0.3200         | 0.6285             | 0.3100           | 0.6570             |
|  | 0.3600         | 0.6860             | 0.3700           | 0.7480             |
|  | 0.4100         | 0.7385             | 0.4200           | 0.8443             |
|  | 0.5100         | 0.8418             | 0.5300           | 0.9824             |
|  | 0.7200         | 0.9853             | 0.7300           | 1.0050             |
|  | 0.9100         | 0.9982             | 0.9400           | 1.0070             |
|  | 1.1100         | 1.0007             | 1.1500           | 1.0001             |
|  | 1.3000         | 1.0003             | 1.3500           | 0.9979             |
|  | 1.5300         | 1.0021             | 1.5500           | 0.9999             |
|  | 1.7400         | 1.0011             | 1.7500           | 0.9988             |
|  | 1.9400         | 1.0001             | 1.9500           | 1.0009             |
|  | 2.1400         | 1.0013             | 2.1600           | 0.9976             |
|  | 2.3500         | 0.9982             | 2.3700           | 0.9957             |
|  | 2.5500         | 0.9980             | 2.5800           | 0.9971             |

Flight 22 Test point 30

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = 0.4 QBAR, lb/ft<sup>2</sup> = 223.9 Rrho = 1930000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 256.3542                   | 0.2225                      | -0.2442                 | 0.2 x/c          |
| Outboard station rake | 0.4182                     | 0.1790                      | 0.0450                  | none             |

|  | Middle station |        | Outboard station |        |
|--|----------------|--------|------------------|--------|
|  | Y, in.         | U/Umax | Y, in.           | U/Umax |
|  | 0.0300         | 0.1759 | 0.0400           | 0.1448 |
|  | 0.0500         | 0.0996 | 0.0700           | 0.1670 |
|  | 0.1100         | 0.1748 | 0.1200           | 0.4597 |
|  | 0.1700         | 0.3209 | 0.1800           | 0.6131 |
|  | 0.2200         | 0.3998 | 0.2100           | 0.7393 |
|  | 0.2700         | 0.5015 | 0.2700           | 0.8564 |
|  | 0.3200         | 0.5816 | 0.3100           | 0.9309 |
|  | 0.3600         | 0.6691 | 0.3700           | 0.9712 |
|  | 0.4100         | 0.7437 | 0.4200           | 0.9916 |
|  | 0.5100         | 0.8742 | 0.5300           | 1.0033 |
|  | 0.7200         | 1.0026 | 0.7300           | 1.0059 |
|  | 0.9100         | 1.0025 | 0.9400           | 1.0056 |
|  | 1.1100         | 1.0035 | 1.1500           | 1.0035 |
|  | 1.3000         | 1.0035 | 1.3500           | 0.9994 |
|  | 1.5300         | 1.0044 | 1.5500           | 1.0041 |
|  | 1.7400         | 1.0036 | 1.7500           | 1.0004 |
|  | 1.9400         | 1.0010 | 1.9500           | 0.9995 |
|  | 2.1400         | 1.0015 | 2.1600           | 0.9963 |
|  | 2.3500         | 0.9909 | 2.3700           | 0.9946 |
|  | 2.5500         | 0.9864 | 2.5800           | 0.9959 |

Flight 22 Test point 31

Sweep, deg = 25.3 Mach = 0.81 hp, ft = 34600. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.7 QBAR, lb/ft<sup>2</sup> = 229.4 Rnpu = 1965000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9920                     | 0.3026                      | 0.0963                  | 0.2 X/c          |
| Outboard station rake | 0.3758                     | 0.1506                      | 0.0447                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1124             | 0.0400           | 0.3662             |
| 0.0500         | 0.1577             | 0.0700           | 0.1936             |
| 0.1100         | 0.2745             | 0.1200           | 0.4873             |
| 0.1700         | 0.3681             | 0.1800           | 0.6794             |
| 0.2200         | 0.4359             | 0.2100           | 0.8030             |
| 0.2700         | 0.5216             | 0.2700           | 0.9037             |
| 0.3200         | 0.5902             | 0.3100           | 0.9598             |
| 0.3600         | 0.6803             | 0.3700           | 0.9848             |
| 0.4100         | 0.7502             | 0.4200           | 0.9992             |
| 0.5100         | 0.8786             | 0.5300           | 1.0040             |
| 0.7200         | 0.9989             | 0.7300           | 1.0063             |
| 0.9100         | 0.9997             | 0.9400           | 1.0065             |
| 1.1100         | 1.0002             | 1.1500           | 1.0012             |
| 1.3000         | 0.9996             | 1.3500           | 0.9987             |
| 1.5300         | 1.0004             | 1.5500           | 1.0031             |
| 1.7400         | 1.0017             | 1.7500           | 1.0006             |
| 1.9400         | 1.0008             | 1.9500           | 0.9997             |
| 2.1400         | 0.9994             | 2.1600           | 0.9956             |
| 2.3500         | 0.9984             | 2.3700           | 0.9991             |
| 2.5500         | 0.9998             | 2.5800           | 1.0011             |

Flight 22 Test point 32

Sweep, deg = 25.3 Mach = 0.81 hp, ft = 34400. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.5 QBAR, lb/ft<sup>2</sup> = 232.6 Rnpu = 1989000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7140                     | 0.2848                      | 0.0874                  | 0.2 X/c          |
| Outboard station rake | 0.4302                     | 0.1981                      | 0.0517                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3210             | 0.0400           | 0.2319             |
| 0.0500         | 0.2558             | 0.0700           | 0.0435             |
| 0.1100         | 0.1555             | 0.1200           | 0.4401             |
| 0.1700         | 0.3764             | 0.1800           | 0.5764             |
| 0.2200         | 0.4739             | 0.2100           | 0.6612             |
| 0.2700         | 0.5745             | 0.2700           | 0.7580             |
| 0.3200         | 0.6637             | 0.3100           | 0.8537             |
| 0.3600         | 0.7385             | 0.3700           | 0.9472             |
| 0.4100         | 0.8054             | 0.4200           | 0.9914             |
| 0.5100         | 0.9111             | 0.5300           | 1.0039             |
| 0.7200         | 1.0023             | 0.7300           | 1.0061             |
| 0.9100         | 1.0026             | 0.9400           | 1.0077             |
| 1.1100         | 1.0034             | 1.1500           | 1.0025             |
| 1.3000         | 1.0018             | 1.3500           | 0.9993             |
| 1.5300         | 1.0039             | 1.5500           | 1.0031             |
| 1.7400         | 1.0035             | 1.7500           | 1.0006             |
| 1.9400         | 1.0015             | 1.9500           | 0.9993             |
| 2.1400         | 1.0009             | 2.1600           | 0.9951             |
| 2.3500         | 0.9914             | 2.3700           | 0.9936             |
| 2.5500         | 0.9886             | 2.5800           | 0.9974             |

Flight 22 Test point 33

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 224.1 R<sub>npu</sub> = 1929000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9149                     | 0.4938                      | 0.0930                  | 0.2 x/c          |
| Outboard station rake | 0.4549                     | 0.2067                      | 0.0589                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.0267             | 0.0400           | 0.3677             |
| 0.0500         | 0.0104             | 0.0700           | 0.3350             |
| 0.1100         | 0.0976             | 0.1200           | 0.2599             |
| 0.1700         | 0.0432             | 0.1800           | 0.4677             |
| 0.2200         | 0.0955             | 0.2100           | 0.6039             |
| 0.2700         | 0.1395             | 0.2700           | 0.7446             |
| 0.3200         | 0.2004             | 0.3100           | 0.8477             |
| 0.3600         | 0.3315             | 0.3700           | 0.9228             |
| 0.4100         | 0.4128             | 0.4200           | 0.9694             |
| 0.5100         | 0.5942             | 0.5300           | 1.0006             |
| 0.7200         | 0.9171             | 0.7300           | 1.0065             |
| 0.9100         | 0.9981             | 0.9400           | 1.0083             |
| 1.1100         | 1.0001             | 1.1500           | 1.0036             |
| 1.3000         | 1.0015             | 1.3500           | 1.0009             |
| 1.5300         | 1.0005             | 1.5500           | 1.0049             |
| 1.7400         | 1.0011             | 1.7500           | 1.0044             |
| 1.9400         | 1.0004             | 1.9500           | 1.0044             |
| 2.1400         | 1.0004             | 2.1600           | 0.9998             |
| 2.3500         | 0.9996             | 2.3700           | 0.9982             |
| 2.5500         | 0.9984             | 2.5800           | 0.9991             |

Flight 22 Test point 34

Sweep, deg = 20.0 Mach = 0.81 hp, ft = 35300. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.5 QBAR, lb/ft<sup>2</sup> = 222.5 Rnpu = 1911000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7182                     | 0.3050                      | 0.0951                  | 0.2 x/c          |
| Outboard station rake | 0.4537                     | 0.2001                      | 0.0591                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.4512 | 0.0400           | 0.3957 |
| 0.0500         | 0.4214 | 0.0700           | 0.3465 |
| 0.1100         | 0.2885 | 0.1200           | 0.2646 |
| 0.1700         | 0.1750 | 0.1800           | 0.4842 |
| 0.2200         | 0.3605 | 0.2100           | 0.6135 |
| 0.2700         | 0.4903 | 0.2700           | 0.7566 |
| 0.3200         | 0.5862 | 0.3100           | 0.8578 |
| 0.3600         | 0.6812 | 0.3700           | 0.9290 |
| 0.4100         | 0.7545 | 0.4200           | 0.9725 |
| 0.5100         | 0.8816 | 0.5300           | 1.0013 |
| 0.7200         | 1.0009 | 0.7300           | 1.0055 |
| 0.9100         | 1.0024 | 0.9400           | 1.0064 |
| 1.1100         | 1.0029 | 1.1500           | 1.0019 |
| 1.3000         | 1.0025 | 1.3500           | 0.9990 |
| 1.5300         | 1.0023 | 1.5500           | 1.0050 |
| 1.7400         | 1.0032 | 1.7500           | 1.0037 |
| 1.9400         | 1.0025 | 1.9500           | 1.0043 |
| 2.1400         | 1.0017 | 2.1600           | 1.0007 |
| 2.3500         | 0.9933 | 2.3700           | 0.9999 |
| 2.5500         | 0.9892 | 2.5800           | 0.9997 |

Flight 22 Test point 35

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 34900. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 225.0 Rrho = 1936000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9119                     | 0.4778                      | 0.0928                  | 0.2 x/c          |
| Outboard station rake | 0.4542                     | 0.2058                      | 0.0590                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.0679             | 0.0400           | 0.3739             |
| 0.0500         | 0.0815             | 0.0700           | 0.3371             |
| 0.1100         | 0.0914             | 0.1200           | 0.2685             |
| 0.1700         | 0.0147             | 0.1800           | 0.4743             |
| 0.2200         | 0.0806             | 0.2100           | 0.6013             |
| 0.2700         | 0.1720             | 0.2700           | 0.7449             |
| 0.3200         | 0.2468             | 0.3100           | 0.8468             |
| 0.3600         | 0.3639             | 0.3700           | 0.9242             |
| 0.4100         | 0.4404             | 0.4200           | 0.9703             |
| 0.5100         | 0.6161             | 0.5300           | 1.0007             |
| 0.7200         | 0.9368             | 0.7300           | 1.0063             |
| 0.9100         | 0.9994             | 0.9400           | 1.0069             |
| 1.1100         | 1.0007             | 1.1500           | 1.0030             |
| 1.3000         | 1.0009             | 1.3500           | 1.0011             |
| 1.5300         | 1.0017             | 1.5500           | 1.0075             |
| 1.7400         | 1.0013             | 1.7500           | 1.0035             |
| 1.9400         | 1.0006             | 1.9500           | 1.0033             |
| 2.1400         | 0.9986             | 2.1600           | 0.9995             |
| 2.3500         | 0.9982             | 2.3700           | 0.9986             |
| 2.5500         | 0.9985             | 2.5800           | 0.9992             |



Flight 22 Test point 36

Sweep, deg = 29.7 Mach = 0.83 hp, ft = 34900, Angle of attack, deg = 2.2  
 Angle of sideslip, deg = 0.4 QBAR, lb/ft<sup>2</sup> = 238.8 Rrho = 2003000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7070                     | 0.2929                      | 0.0924                  | 0.2 x/c          |
| Outboard station rake | 0.5383                     | 0.2494                      | 0.0728                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1824             | 0.0400           | 0.2071             |
| 0.0500         | 0.2178             | 0.0700           | 0.2109             |
| 0.1100         | 0.2862             | 0.1200           | 0.2882             |
| 0.1700         | 0.3949             | 0.1800           | 0.3860             |
| 0.2200         | 0.4750             | 0.2100           | 0.4654             |
| 0.2700         | 0.5591             | 0.2700           | 0.5928             |
| 0.3200         | 0.6240             | 0.3100           | 0.7057             |
| 0.3600         | 0.7068             | 0.3700           | 0.8130             |
| 0.4100         | 0.7732             | 0.4200           | 0.9009             |
| 0.5100         | 0.8934             | 0.5300           | 0.9935             |
| 0.7200         | 1.0063             | 0.7300           | 1.0048             |
| 0.9100         | 1.0063             | 0.9400           | 1.0054             |
| 1.1100         | 1.0087             | 1.1500           | 1.0024             |
| 1.3000         | 1.0076             | 1.3500           | 0.9993             |
| 1.5300         | 1.0074             | 1.5500           | 1.0045             |
| 1.7400         | 1.0057             | 1.7500           | 1.0037             |
| 1.9400         | 1.0042             | 1.9500           | 1.0054             |
| 2.1400         | 0.9913             | 2.1600           | 0.9969             |
| 2.3500         | 0.9847             | 2.3700           | 0.9900             |
| 2.5500         | 0.9842             | 2.5800           | 0.9876             |

Flight 22 Test point 37

Sweep, deg = 34.9 Mach = 0.83 hp, ft = 34900. Angle of attack, deg = 2.5  
 Angle of sideslip, deg = 0.4 QBAR, lb/ft<sup>2</sup> = 239.4 Rnpu = 2008000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9267                     | 0.3583                      | 0.1314                  | 0.2 x/c          |
| Outboard station rake | 0.9184                     | 0.3888                      | 0.1113                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2827             | 0.0400           | 0.1850             |
| 0.0500         | 0.2822             | 0.0700           | 0.1695             |
| 0.1100         | 0.3194             | 0.1200           | 0.1975             |
| 0.1700         | 0.3728             | 0.1800           | 0.2304             |
| 0.2200         | 0.4133             | 0.2100           | 0.2795             |
| 0.2700         | 0.4780             | 0.2700           | 0.3698             |
| 0.3200         | 0.5180             | 0.3100           | 0.4548             |
| 0.3600         | 0.5835             | 0.3700           | 0.5255             |
| 0.4100         | 0.6351             | 0.4200           | 0.6140             |
| 0.5100         | 0.7380             | 0.5300           | 0.7613             |
| 0.7200         | 0.9224             | 0.7300           | 0.9672             |
| 0.9100         | 0.9942             | 0.9400           | 1.0034             |
| 1.1100         | 1.0019             | 1.1500           | 0.9984             |
| 1.3000         | 1.0013             | 1.3500           | 0.9964             |
| 1.5300         | 1.0013             | 1.5500           | 1.0030             |
| 1.7400         | 1.0000             | 1.7500           | 1.0022             |
| 1.9400         | 1.0008             | 1.9500           | 1.0020             |
| 2.1400         | 1.0004             | 2.1600           | 1.0008             |
| 2.3500         | 1.0004             | 2.3700           | 1.0002             |
| 2.5500         | 0.9997             | 2.5800           | 0.9934             |

Flight 22 Test point 38

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = 0.4 QBAR, lb/ft<sup>2</sup> = 354.2 Rnpu = 2814000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.8606                     | 0.3023                      | 0.0985                  | 0.2 x/c          |
| Outboard station rake | 0.4491                     | 0.1801                      | 0.0579                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5167             | 0.0400           | 0.5948             |
| 0.0500         | 0.4903             | 0.0700           | 0.5381             |
| 0.1100         | 0.3521             | 0.1200           | 0.2204             |
| 0.1700         | 0.1386             | 0.1800           | 0.4226             |
| 0.2200         | 0.3671             | 0.2100           | 0.6125             |
| 0.2700         | 0.5014             | 0.2700           | 0.7785             |
| 0.3200         | 0.6004             | 0.3100           | 0.8868             |
| 0.3600         | 0.6782             | 0.3700           | 0.9557             |
| 0.4100         | 0.7499             | 0.4200           | 0.9844             |
| 0.5100         | 0.8652             | 0.5300           | 1.0002             |
| 0.7200         | 0.9964             | 0.7300           | 1.0047             |
| 0.9100         | 1.0011             | 0.9400           | 1.0039             |
| 1.1100         | 1.0026             | 1.1500           | 1.0016             |
| 1.3000         | 1.0013             | 1.3500           | 1.0002             |
| 1.5300         | 1.0019             | 1.5500           | 1.0044             |
| 1.7400         | 1.0018             | 1.7500           | 1.0037             |
| 1.9400         | 1.0017             | 1.9500           | 1.0011             |
| 2.1400         | 1.0012             | 2.1600           | 0.9983             |
| 2.3500         | 0.9951             | 2.3700           | 0.9987             |
| 2.5500         | 0.9933             | 2.5800           | 0.9988             |

Flight 22 Test point 39

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25100. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 351.3 Rnpu = 2797000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.8387                     | 0.3364                      | 0.0981                  | 0.2 x/c          |
| Outboard station rake | 0.4538                     | 0.2056                      | 0.0555                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3711             | 0.0400           | 0.5018             |
| 0.0500         | 0.3702             | 0.0700           | 0.4584             |
| 0.1100         | 0.2499             | 0.1200           | 0.0607             |
| 0.1700         | 0.1195             | 0.1800           | 0.4223             |
| 0.2200         | 0.3076             | 0.2100           | 0.5855             |
| 0.2700         | 0.4287             | 0.2700           | 0.7387             |
| 0.3200         | 0.5385             | 0.3100           | 0.8469             |
| 0.3600         | 0.6232             | 0.3700           | 0.9292             |
| 0.4100         | 0.7044             | 0.4200           | 0.9725             |
| 0.5100         | 0.8394             | 0.5300           | 1.0009             |
| 0.7200         | 0.9940             | 0.7300           | 1.0049             |
| 0.9100         | 1.0033             | 0.9400           | 1.0062             |
| 1.1100         | 1.0042             | 1.1500           | 1.0031             |
| 1.3000         | 1.0045             | 1.3500           | 1.0027             |
| 1.5300         | 1.0036             | 1.5500           | 1.0051             |
| 1.7400         | 1.0039             | 1.7500           | 1.0046             |
| 1.9400         | 1.0024             | 1.9500           | 1.0034             |
| 2.1400         | 1.0010             | 2.1600           | 0.9994             |
| 2.3500         | 0.9904             | 2.3700           | 0.9983             |
| 2.5500         | 0.9867             | 2.5800           | 0.9988             |

Flight 22 Test point 40

Sweep, deg = 25.4 Mach = 0.80 hp, ft = 25100. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = 0.4 QBAR, lb/ft<sup>2</sup> = 354.1 Rrho = 2813000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9845                     | 0.2853                      | 0.1029                  | 0.2 x/c          |
| Outboard station rake | 0.7128                     | 0.2329                      | 0.0786                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1652             | 0.0400           | 0.3939             |
| 0.0500         | 0.2375             | 0.0700           | 0.2885             |
| 0.1100         | 0.3433             | 0.1200           | 0.2920             |
| 0.1700         | 0.4378             | 0.1800           | 0.4655             |
| 0.2200         | 0.5000             | 0.2100           | 0.5661             |
| 0.2700         | 0.5705             | 0.2700           | 0.6678             |
| 0.3200         | 0.6363             | 0.3100           | 0.7487             |
| 0.3600         | 0.7033             | 0.3700           | 0.8262             |
| 0.4100         | 0.7607             | 0.4200           | 0.8899             |
| 0.5100         | 0.8665             | 0.5300           | 0.9761             |
| 0.7200         | 0.9939             | 0.7300           | 1.0020             |
| 0.9100         | 0.9985             | 0.9400           | 1.0029             |
| 1.1100         | 1.0000             | 1.1500           | 0.9991             |
| 1.3000         | 0.9998             | 1.3500           | 0.9983             |
| 1.5300         | 1.0008             | 1.5500           | 1.0013             |
| 1.7400         | 1.0001             | 1.7500           | 1.0011             |
| 1.9400         | 1.0007             | 1.9500           | 1.0016             |
| 2.1400         | 0.9996             | 2.1600           | 0.9972             |
| 2.3500         | 1.0004             | 2.3700           | 0.9982             |
| 2.5500         | 1.0002             | 2.5800           | 0.9983             |

Flight 22 Test point 4i

Sweep, deg = 25.4 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 350.5 Rnpu = 2799000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9413                     | 0.3222                      | 0.1014                  | 0.2 x/c          |
| Outboard station rake | 0.7105                     | 0.2391                      | 0.0778                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1069             | 0.0400           | 0.4142             |
| 0.0500         | 0.1580             | 0.0700           | 0.3333             |
| 0.1100         | 0.2572             | 0.1200           | 0.2328             |
| 0.1700         | 0.3462             | 0.1800           | 0.4259             |
| 0.2200         | 0.4174             | 0.2100           | 0.5382             |
| 0.2700         | 0.4933             | 0.2700           | 0.6519             |
| 0.3200         | 0.5661             | 0.3100           | 0.7382             |
| 0.3600         | 0.6481             | 0.3700           | 0.8210             |
| 0.4100         | 0.7157             | 0.4200           | 0.8866             |
| 0.5100         | 0.8432             | 0.5300           | 0.9782             |
| 0.7200         | 0.9916             | 0.7300           | 1.0020             |
| 0.9100         | 0.9989             | 0.9400           | 1.0032             |
| 1.1100         | 1.0020             | 1.1500           | 1.0003             |
| 1.3000         | 1.0002             | 1.3500           | 0.9997             |
| 1.5300         | 1.0005             | 1.5500           | 1.0026             |
| 1.7400         | 1.0005             | 1.7500           | 1.0022             |
| 1.9400         | 0.9993             | 1.9500           | 1.0025             |
| 2.1400         | 0.9988             | 2.1600           | 0.9946             |
| 2.3500         | 1.0004             | 2.3700           | 0.9960             |
| 2.5500         | 0.9994             | 2.5800           | 0.9969             |

Flight 22 Test point 42

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 25100. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 350.6 R<sub>npu</sub> = 2797000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.8251                     | 0.3174                      | 0.0957                  | 0.2 x/c          |
| Outboard station rake | 0.6523                     | 0.2450                      | 0.0725                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0306         | 0.2370             | 0.0400           | 0.2950             |
| 0.0500         | 0.1975             | 0.0700           | 0.2265             |
| 0.1100         | 0.1709             | 0.1200           | 0.2451             |
| 0.1700         | 0.3436             | 0.1800           | 0.4070             |
| 0.2200         | 0.4359             | 0.2100           | 0.5118             |
| 0.2700         | 0.5239             | 0.2700           | 0.6355             |
| 0.3200         | 0.6032             | 0.3100           | 0.7310             |
| 0.3600         | 0.6780             | 0.3700           | 0.8251             |
| 0.4100         | 0.7441             | 0.4200           | 0.8992             |
| 0.5100         | 0.8570             | 0.5300           | 0.9907             |
| 0.7200         | 0.9947             | 0.7300           | 1.0051             |
| 0.9100         | 1.0039             | 0.9400           | 1.0056             |
| 1.1100         | 1.0045             | 1.1500           | 1.0035             |
| 1.3000         | 1.0043             | 1.3500           | 1.0020             |
| 1.5300         | 1.0037             | 1.5500           | 1.0049             |
| 1.7400         | 1.0043             | 1.7500           | 1.0040             |
| 1.9400         | 1.0033             | 1.9500           | 1.0040             |
| 2.1400         | 1.0014             | 2.1600           | 0.9926             |
| 2.3500         | 0.9877             | 2.3700           | 0.9903             |
| 2.5500         | 0.9869             | 2.5800           | 0.9882             |

Flight 22 Test point 43

Sweep, deg = 30.1 Mach = 0.30 hp, ft = 25100. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 351.2 Rrho = 2798000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.8983                     | 0.2390                      | 0.1107                  | 0.2 x/c          |
| Outboard station rake | 0.7208                     | 0.2008                      | 0.0896                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4436             | 0.0400           | 0.4228             |
| 0.0500         | 0.4723             | 0.0700           | 0.4765             |
| 0.1100         | 0.5166             | 0.1200           | 0.5470             |
| 0.1700         | 0.5687             | 0.1800           | 0.6033             |
| 0.2200         | 0.6013             | 0.2100           | 0.6425             |
| 0.2700         | 0.6471             | 0.2700           | 0.7029             |
| 0.3200         | 0.6899             | 0.3100           | 0.7574             |
| 0.3600         | 0.7325             | 0.3700           | 0.8114             |
| 0.4100         | 0.7717             | 0.4200           | 0.8628             |
| 0.5100         | 0.8592             | 0.5300           | 0.9523             |
| 0.7200         | 0.9870             | 0.7300           | 1.0020             |
| 0.9100         | 1.0008             | 0.9400           | 1.0031             |
| 1.1100         | 1.0011             | 1.1500           | 0.9987             |
| 1.3000         | 0.9998             | 1.3500           | 0.9967             |
| 1.5300         | 1.0018             | 1.5500           | 1.0009             |
| 1.7400         | 1.0004             | 1.7500           | 1.0002             |
| 1.9400         | 0.9993             | 1.9500           | 1.0010             |
| 2.1400         | 0.9984             | 2.1600           | 1.0000             |
| 2.3500         | 0.9991             | 2.3700           | 0.9988             |
| 2.5500         | 0.9993             | 2.5800           | 0.9988             |



Flight 22 Test point 44

Sweep, deg = 30.1 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 352.8 Rnpu = 2804000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9102                     | 0.2631                      | 0.1143                  | 0.2 x/c          |
| Outboard station rake | 0.7176                     | 0.2367                      | 0.0937                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3893             | 0.0400           | 0.3119             |
| 0.0500         | 0.4119             | 0.0700           | 0.3578             |
| 0.1100         | 0.4568             | 0.1200           | 0.4400             |
| 0.1700         | 0.5130             | 0.1800           | 0.5028             |
| 0.2200         | 0.5488             | 0.2100           | 0.5572             |
| 0.2700         | 0.5991             | 0.2700           | 0.6292             |
| 0.3200         | 0.6492             | 0.3100           | 0.6929             |
| 0.3600         | 0.7002             | 0.3700           | 0.7645             |
| 0.4100         | 0.7483             | 0.4200           | 0.8350             |
| 0.5100         | 0.8449             | 0.5300           | 0.9473             |
| 0.7200         | 0.9850             | 0.7300           | 1.0031             |
| 0.9100         | 1.0000             | 0.9400           | 1.0038             |
| 1.1100         | 1.0011             | 1.1500           | 1.0015             |
| 1.3000         | 1.0004             | 1.3500           | 0.9989             |
| 1.5300         | 1.0014             | 1.5500           | 1.0019             |
| 1.7400         | 0.9995             | 1.7500           | 0.9988             |
| 1.9400         | 1.0009             | 1.9500           | 0.9984             |
| 2.1400         | 0.9996             | 2.1600           | 0.9979             |
| 2.3500         | 0.9984             | 2.3700           | 0.9984             |
| 2.5500         | 0.9988             | 2.5800           | 0.9973             |

Flight 22 Test point 45

Sweep, deg = 30.1 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = 0.4 QBAR, lb/ft<sup>2</sup> = 353.0 Rnpu = 2804000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9062                     | 0.3055                      | 0.1210                  | 0.2 x/c          |
| Outboard station rake | 0.7271                     | 0.3085                      | 0.0963                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3347             | 0.0400           | 0.1809             |
| 0.0500         | 0.3457             | 0.0700           | 0.1956             |
| 0.1100         | 0.3900             | 0.1200           | 0.2834             |
| 0.1700         | 0.4347             | 0.1800           | 0.3297             |
| 0.2200         | 0.4775             | 0.2100           | 0.3907             |
| 0.2700         | 0.5295             | 0.2700           | 0.4938             |
| 0.3200         | 0.5743             | 0.3100           | 0.5888             |
| 0.3600         | 0.6299             | 0.3700           | 0.6739             |
| 0.4100         | 0.6847             | 0.4200           | 0.7553             |
| 0.5100         | 0.7987             | 0.5300           | 0.8942             |
| 0.7200         | 0.9748             | 0.7300           | 1.0014             |
| 0.9100         | 1.0005             | 0.9400           | 1.0037             |
| 1.1100         | 1.0014             | 1.1500           | 0.9993             |
| 1.3000         | 0.9984             | 1.3500           | 0.9980             |
| 1.5300         | 1.0007             | 1.5500           | 1.0010             |
| 1.7400         | 1.0003             | 1.7500           | 1.0013             |
| 1.9400         | 0.9998             | 1.9500           | 1.0026             |
| 2.1400         | 0.9991             | 2.1600           | 0.9996             |
| 2.3500         | 1.0001             | 2.3700           | 0.9987             |
| 2.5500         | 0.9996             | 2.5800           | 0.9957             |

Flight 22 Test point 46

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 336.7 Rrho = 2926000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7382                     | 0.2048                      | 0.0904                  | 0.2 x/c          |
| Outboard station rake | 0.2926                     | 0.0892                      | 0.0326                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1056             | 0.0400           | 0.3239             |
| 0.0500         | 0.3636             | 0.0700           | 0.5847             |
| 0.1100         | 0.5389             | 0.1200           | 0.7679             |
| 0.1700         | 0.6357             | 0.1800           | 0.8807             |
| 0.2200         | 0.6882             | 0.2100           | 0.9438             |
| 0.2700         | 0.7309             | 0.2700           | 0.9861             |
| 0.3200         | 0.7747             | 0.3100           | 0.9991             |
| 0.3600         | 0.8157             | 0.3700           | 0.9990             |
| 0.4100         | 0.8466             | 0.4200           | 1.0008             |
| 0.5100         | 0.9165             | 0.5300           | 1.0002             |
| 0.7200         | 0.9941             | 0.7300           | 1.0020             |
| 0.9100         | 1.0001             | 0.9400           | 1.0045             |
| 1.1100         | 1.0017             | 1.1500           | 0.9985             |
| 1.3000         | 1.0009             | 1.3500           | 0.9960             |
| 1.5300         | 1.0014             | 1.5500           | 1.0020             |
| 1.7400         | 1.0002             | 1.7500           | 1.0025             |
| 1.9400         | 0.9995             | 1.9500           | 1.0028             |
| 2.1400         | 1.0008             | 2.1600           | 1.0024             |
| 2.3500         | 1.0006             | 2.3700           | 1.0023             |
| 2.5500         | 1.0007             | 2.5800           | 1.0019             |

Flight 22 Test point 47

Sweep, deg = 20.0 Mach = 0.71 hp, ft = 19900. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 340.5 Rnpu = 2945000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7378                     | 0.2113                      | 0.0908                  | 0.2 x/c          |
| Outboard station rake | 0.2967                     | 0.0960                      | 0.0335                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.0424             | 0.0400           | 0.2552             |
| 0.0500         | 0.3559             | 0.0700           | 0.5497             |
| 0.1100         | 0.5293             | 0.1200           | 0.7479             |
| 0.1700         | 0.6286             | 0.1800           | 0.8637             |
| 0.2200         | 0.6794             | 0.2100           | 0.9316             |
| 0.2700         | 0.7237             | 0.2700           | 0.9808             |
| 0.3200         | 0.7681             | 0.3100           | 0.9975             |
| 0.3600         | 0.8093             | 0.3700           | 0.9986             |
| 0.4100         | 0.8394             | 0.4200           | 1.0012             |
| 0.5100         | 0.9102             | 0.5300           | 1.0004             |
| 0.7200         | 0.9938             | 0.7300           | 1.0033             |
| 0.9100         | 1.0004             | 0.9400           | 1.0043             |
| 1.1100         | 1.0008             | 1.1500           | 0.9988             |
| 1.3000         | 1.0003             | 1.3500           | 0.9972             |
| 1.5300         | 1.0003             | 1.5500           | 1.0022             |
| 1.7400         | 1.0005             | 1.7500           | 1.0029             |
| 1.9400         | 1.0008             | 1.9500           | 1.0039             |
| 2.1400         | 1.0002             | 2.1600           | 1.0009             |
| 2.3500         | 1.0003             | 2.3700           | 1.0035             |
| 2.5500         | 1.0027             | 2.5800           | 1.0044             |

Flight 22 Test point 48

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 20100. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 334.5 Rnpu = 2908000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9344                     | 0.2224                      | 0.0983                  | 0.2 x/c          |
| Outboard station rake | 0.3302                     | 0.1171                      | 0.0427                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2212             | 0.0400           | 0.3426             |
| 0.0500         | 0.2948             | 0.0700           | 0.3707             |
| 0.1100         | 0.4963             | 0.1200           | 0.6466             |
| 0.1700         | 0.6055             | 0.1800           | 0.7847             |
| 0.2200         | 0.6610             | 0.2100           | 0.8627             |
| 0.2700         | 0.7095             | 0.2700           | 0.9386             |
| 0.3200         | 0.7524             | 0.3100           | 0.9803             |
| 0.3600         | 0.7913             | 0.3700           | 0.9950             |
| 0.4100         | 0.8242             | 0.4200           | 1.0017             |
| 0.5100         | 0.8928             | 0.5300           | 0.9999             |
| 0.7200         | 0.9907             | 0.7300           | 1.0022             |
| 0.9100         | 0.9991             | 0.9400           | 1.0038             |
| 1.1100         | 1.0011             | 1.1500           | 0.9994             |
| 1.3000         | 1.0003             | 1.3500           | 0.9979             |
| 1.5300         | 0.9998             | 1.5500           | 1.0036             |
| 1.7400         | 1.0014             | 1.7500           | 1.0029             |
| 1.9400         | 0.9998             | 1.9500           | 1.0041             |
| 2.1400         | 0.9989             | 2.1600           | 1.0023             |
| 2.3500         | 0.9987             | 2.3700           | 1.0031             |
| 2.5500         | 1.0009             | 2.5800           | 1.0039             |

Flight 22 Test point 49

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 19900, Angle of attack, deg = 0.7  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 335.5 Rnpu = 2921000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7315                     | 0.1693                      | 0.0877                  | 0.2 x/c          |
| Outboard station rake | 0.3176                     | 0.0860                      | 0.0372                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4870             | 0.0400           | 0.5439             |
| 0.0500         | 0.5514             | 0.0700           | 0.6479             |
| 0.1100         | 0.6217             | 0.1200           | 0.7600             |
| 0.1700         | 0.6878             | 0.1800           | 0.8462             |
| 0.2200         | 0.7244             | 0.2100           | 0.9057             |
| 0.2700         | 0.7666             | 0.2700           | 0.9619             |
| 0.3200         | 0.8006             | 0.3100           | 0.9918             |
| 0.3600         | 0.8382             | 0.3700           | 0.9989             |
| 0.4100         | 0.8673             | 0.4300           | 1.0010             |
| 0.5100         | 0.9313             | 0.5300           | 1.0006             |
| 0.7200         | 0.9969             | 0.7300           | 1.0011             |
| 0.9100         | 0.9985             | 0.9400           | 1.0025             |
| 1.1100         | 1.0009             | 1.1500           | 0.9980             |
| 1.3000         | 1.0001             | 1.3500           | 0.9966             |
| 1.5300         | 1.0018             | 1.5500           | 1.0017             |
| 1.7400         | 1.0010             | 1.7500           | 1.0015             |
| 1.9400         | 0.9998             | 1.9500           | 1.0020             |
| 2.1400         | 1.0003             | 2.1600           | 1.0012             |
| 2.3500         | 0.9990             | 2.3700           | 1.0009             |
| 2.5500         | 1.0018             | 2.5800           | 1.0022             |

Flight 22 Test point 50

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 19900. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 337.2 Rrho = 2933000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7293                     | 0.1704                      | 0.0883                  | 0.2 x/c          |
| Outboard station rake | 0.3094                     | 0.0845                      | 0.0362                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4941             | 0.0400           | 0.5464             |
| 0.0500         | 0.5507             | 0.0700           | 0.6470             |
| 0.1100         | 0.6213             | 0.1200           | 0.7609             |
| 0.1700         | 0.6857             | 0.1800           | 0.8520             |
| 0.2200         | 0.7232             | 0.2100           | 0.9151             |
| 0.2700         | 0.7655             | 0.2700           | 0.9693             |
| 0.3200         | 0.8017             | 0.3100           | 0.9977             |
| 0.3600         | 0.8365             | 0.3700           | 1.0018             |
| 0.4100         | 0.8665             | 0.4200           | 1.0035             |
| 0.5100         | 0.9270             | 0.5300           | 1.0012             |
| 0.7200         | 0.9973             | 0.7300           | 1.0024             |
| 0.9100         | 0.9991             | 0.9400           | 1.0056             |
| 1.1100         | 1.0013             | 1.1500           | 1.0005             |
| 1.3000         | 0.9993             | 1.3500           | 0.9980             |
| 1.5300         | 0.9998             | 1.5500           | 1.0038             |
| 1.7400         | 1.0009             | 1.7500           | 1.0028             |
| 1.9400         | 0.9993             | 1.9500           | 1.0057             |
| 2.1400         | 1.0015             | 2.1600           | 1.0009             |
| 2.3500         | 1.0002             | 2.3700           | 1.0033             |
| 2.5500         | 1.0013             | 2.5800           | 1.0035             |

Flight 22 Test point 51

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 20200. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 334.2 Rrho = 2906000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7330                     | 0.1738                      | 0.0895                  | 0.2 x/c          |
| Outboard station rake | 0.3244                     | 0.0933                      | 0.0397                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4839             | 0.0400           | 0.4875             |
| 0.0500         | 0.5466             | 0.0700           | 0.6074             |
| 0.1100         | 0.6195             | 0.1200           | 0.7313             |
| 0.1700         | 0.6810             | 0.1800           | 0.8256             |
| 0.2200         | 0.7184             | 0.2100           | 0.8917             |
| 0.2700         | 0.7595             | 0.2700           | 0.9540             |
| 0.3200         | 0.7939             | 0.3100           | 0.9884             |
| 0.3600         | 0.8313             | 0.3700           | 0.9986             |
| 0.4100         | 0.8618             | 0.4200           | 1.0016             |
| 0.5100         | 0.9253             | 0.5300           | 1.0020             |
| 0.7200         | 0.9962             | 0.7300           | 1.0016             |
| 0.9100         | 0.9998             | 0.9400           | 1.0037             |
| 1.1100         | 1.0018             | 1.1500           | 0.9990             |
| 1.3000         | 0.9992             | 1.3500           | 0.9965             |
| 1.5300         | 1.0011             | 1.5500           | 1.0012             |
| 1.7400         | 1.0008             | 1.7500           | 1.0014             |
| 1.9400         | 0.9998             | 1.9500           | 1.0029             |
| 2.1400         | 1.0009             | 2.1600           | 0.9991             |
| 2.3500         | 0.9999             | 2.3700           | 1.0018             |
| 2.5500         | 1.0005             | 2.5800           | 1.0022             |



Flight 22 Test point 52

Sweep, deg = 30.4 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 330.7 Rnpu = 2899000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7338                     | 0.1641                      | 0.0879                  | 0.2 x/c          |
| Outboard station rake | 0.8931                     | 0.1277                      | 0.0649                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5570             | 0.0400           | 0.5773             |
| 0.0500         | 0.5904             | 0.0700           | 0.6237             |
| 0.1100         | 0.6439             | 0.1200           | 0.6829             |
| 0.1700         | 0.6964             | 0.1800           | 0.7388             |
| 0.2200         | 0.7312             | 0.2100           | 0.7769             |
| 0.2700         | 0.7680             | 0.2700           | 0.8285             |
| 0.3200         | 0.8019             | 0.3100           | 0.8720             |
| 0.3600         | 0.8370             | 0.3700           | 0.9094             |
| 0.4100         | 0.8653             | 0.4200           | 0.9470             |
| 0.5100         | 0.9268             | 0.5300           | 0.9921             |
| 0.7200         | 0.9960             | 0.7300           | 1.0015             |
| 0.9100         | 1.0004             | 0.9400           | 1.0030             |
| 1.1100         | 1.0008             | 1.1500           | 0.9983             |
| 1.3000         | 0.9998             | 1.3500           | 0.9960             |
| 1.5300         | 1.0017             | 1.5500           | 0.9998             |
| 1.7400         | 1.0008             | 1.7500           | 1.0016             |
| 1.9400         | 0.9996             | 1.9500           | 1.0030             |
| 2.1400         | 0.9996             | 2.1600           | 1.0015             |
| 2.3500         | 1.0006             | 2.3700           | 1.0021             |
| 2.5500         | 1.0007             | 2.5800           | 1.0011             |

Flight 22 Test point 53

Sweep, deg = 30.4 Mach = 0.70 hp, ft = 19900. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 335.7 Rrho = 2922000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7376                     | 0.1688                      | 0.0900                  | 0.2 x/c          |
| Outboard station rake | 0.6963                     | 0.1325                      | 0.0659                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5569             | 0.0400           | 0.5704             |
| 0.0500         | 0.5880             | 0.0700           | 0.6130             |
| 0.1100         | 0.6396             | 0.1200           | 0.6821             |
| 0.1700         | 0.6868             | 0.1800           | 0.7366             |
| 0.2200         | 0.7253             | 0.2100           | 0.7753             |
| 0.2700         | 0.7633             | 0.2700           | 0.8267             |
| 0.3200         | 0.7964             | 0.3100           | 0.8665             |
| 0.3600         | 0.8325             | 0.3700           | 0.9067             |
| 0.4100         | 0.8597             | 0.4200           | 0.9426             |
| 0.5100         | 0.9192             | 0.5300           | 0.9902             |
| 0.7200         | 0.9945             | 0.7300           | 1.0017             |
| 0.9100         | 0.9995             | 0.9400           | 1.0031             |
| 1.1100         | 1.0017             | 1.1500           | 0.9988             |
| 1.3000         | 0.9988             | 1.3500           | 0.9964             |
| 1.5300         | 1.0015             | 1.5500           | 1.0016             |
| 1.7400         | 0.9997             | 1.7500           | 1.0011             |
| 1.9400         | 1.0022             | 1.9500           | 1.0039             |
| 2.1400         | 1.0013             | 2.1600           | 0.9997             |
| 2.3500         | 1.0005             | 2.3700           | 1.0026             |
| 2.5500         | 1.0004             | 2.5800           | 1.0011             |

Flight 22 Test point 54

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 333.4 Rnpu = 2906000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7498                     | 0.1705                      | 0.0922                  | 0.2 x/c          |
| Outboard station rake | 0.5883                     | 0.1364                      | 0.0694                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5647             | 0.0400           | 0.5950             |
| 0.0500         | 0.5952             | 0.0700           | 0.6238             |
| 0.1100         | 0.6439             | 0.1200           | 0.6854             |
| 0.1700         | 0.6943             | 0.1800           | 0.7322             |
| 0.2200         | 0.7275             | 0.2100           | 0.7708             |
| 0.2700         | 0.7629             | 0.2700           | 0.8141             |
| 0.3200         | 0.7931             | 0.3100           | 0.8541             |
| 0.3600         | 0.8270             | 0.3700           | 0.8909             |
| 0.4100         | 0.8537             | 0.4200           | 0.9243             |
| 0.5100         | 0.9090             | 0.5300           | 0.9759             |
| 0.7200         | 0.9900             | 0.7300           | 1.0032             |
| 0.9100         | 1.0004             | 0.9400           | 1.0051             |
| 1.1100         | 1.0030             | 1.1500           | 1.0009             |
| 1.3000         | 1.0006             | 1.3500           | 0.9983             |
| 1.5300         | 1.0020             | 1.5500           | 1.0026             |
| 1.7400         | 1.0006             | 1.7500           | 1.0016             |
| 1.9400         | 1.0000             | 1.9500           | 1.0041             |
| 2.1400         | 1.0003             | 2.1600           | 1.0022             |
| 2.3500         | 1.0018             | 2.3700           | 1.0020             |
| 2.5500         | 1.0012             | 2.5800           | 1.0040             |

Flight 22 Test point 55

Sweep, deg = 35.0 Mach = 0.70 hp, ft = 19800. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 339.2 Rnpu = 2941000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7414                     | 0.1659                      | 0.0900                  | 0.2 x/c          |
| Outboard station rake | 0.5703                     | 0.1319                      | 0.0669                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5719             | 0.0400           | 0.5970             |
| 0.0500         | 0.5984             | 0.0700           | 0.6259             |
| 0.1000         | 0.6497             | 0.1200           | 0.6883             |
| 0.1700         | 0.6990             | 0.1800           | 0.7389             |
| 0.2200         | 0.7327             | 0.2100           | 0.7772             |
| 0.2700         | 0.7690             | 0.2700           | 0.8250             |
| 0.3200         | 0.8020             | 0.3100           | 0.8625             |
| 0.3600         | 0.8306             | 0.3700           | 0.8978             |
| 0.4100         | 0.8576             | 0.4200           | 0.9322             |
| 0.5100         | 0.9162             | 0.5300           | 0.9833             |
| 0.7200         | 0.9932             | 0.7300           | 1.0028             |
| 0.9100         | 0.9985             | 0.9400           | 1.0033             |
| 1.1100         | 1.0012             | 1.1500           | 0.9991             |
| 1.3000         | 1.0004             | 1.3500           | 0.9978             |
| 1.5300         | 1.0016             | 1.5500           | 1.0030             |
| 1.7400         | 1.0014             | 1.7500           | 1.0022             |
| 1.9400         | 1.0007             | 1.9500           | 1.0036             |
| 2.1400         | 0.9998             | 2.1600           | 0.9990             |
| 2.3500         | 1.0016             | 2.3700           | 1.0025             |
| 2.5500         | 1.0016             | 2.5800           | 1.0032             |

Flight 22 Test point 56

Sweep, deg = 35.0 Mach = 0.70 hp, ft = 19800. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 340.3 Rnpu = 2946000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7527                     | 0.1741                      | 0.0938                  | 0.2 x/c          |
| Outboard station rake | 0.5944                     | 0.1404                      | 0.0711                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5671             | 0.0400           | 0.5902             |
| 0.0500         | 0.5896             | 0.0700           | 0.6189             |
| 0.1100         | 0.6415             | 0.1200           | 0.6800             |
| 0.1700         | 0.6887             | 0.1800           | 0.7270             |
| 0.2200         | 0.7207             | 0.2100           | 0.7626             |
| 0.2700         | 0.7588             | 0.2700           | 0.8097             |
| 0.3200         | 0.7903             | 0.3100           | 0.8480             |
| 0.3600         | 0.8238             | 0.3700           | 0.8851             |
| 0.4100         | 0.8477             | 0.4200           | 0.9173             |
| 0.5100         | 0.9035             | 0.5300           | 0.9719             |
| 0.7200         | 0.9885             | 0.7300           | 1.0048             |
| 0.9100         | 1.0011             | 0.9400           | 1.0053             |
| 1.1100         | 1.0017             | 1.1500           | 1.0009             |
| 1.3000         | 1.0017             | 1.3500           | 0.9976             |
| 1.5300         | 1.0019             | 1.5500           | 1.0039             |
| 1.7400         | 1.0002             | 1.7500           | 1.0032             |
| 1.9400         | 1.0011             | 1.9500           | 1.0057             |
| 2.1400         | 1.0009             | 2.1600           | 1.0018             |
| 2.3500         | 1.0020             | 2.3700           | 1.0025             |
| 2.5500         | 1.0009             | 2.5800           | 1.0025             |

Flight 22 Test point 57

Sweep, deg = 35.2 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 385.1 Rrho = 3148000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7468                     | 0.1773                      | 0.0928                  | 0.2 x/c          |
| Outboard station rake | 0.5813                     | 0.1431                      | 0.0705                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5500             | 0.0400           | 0.5813             |
| 0.0500         | 0.5808             | 0.0700           | 0.6116             |
| 0.1100         | 0.6317             | 0.1200           | 0.6691             |
| 0.1700         | 0.6830             | 0.1800           | 0.7206             |
| 0.2200         | 0.7183             | 0.2100           | 0.7566             |
| 0.2700         | 0.7544             | 0.2700           | 0.8050             |
| 0.3200         | 0.7872             | 0.3100           | 0.8461             |
| 0.3600         | 0.8220             | 0.3700           | 0.8852             |
| 0.4100         | 0.8501             | 0.4200           | 0.9213             |
| 0.5100         | 0.9084             | 0.5300           | 0.9770             |
| 0.7200         | 0.9908             | 0.7300           | 1.0042             |
| 0.9100         | 1.0003             | 0.9400           | 1.0047             |
| 1.1100         | 1.0023             | 1.1500           | 1.0002             |
| 1.3000         | 1.0008             | 1.3500           | 0.9989             |
| 1.5300         | 1.0012             | 1.5500           | 1.0021             |
| 1.7400         | 1.0013             | 1.7500           | 1.0020             |
| 1.9400         | 1.0012             | 1.9500           | 1.0044             |
| 2.1400         | 1.0010             | 2.1600           | 1.0016             |
| 2.3500         | 1.0010             | 2.3700           | 1.0029             |
| 2.5500         | 0.9999             | 2.5800           | 1.0021             |

Flight 22 Test point 58

Sweep, deg = 35.2 Mach = 0.76 hp, ft = 20000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 389.4 Rrho = 3166000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9221                     | 0.1893                      | 0.0988                  | 0.2 x/c          |
| Outboard station rake | 0.5967                     | 0.1531                      | 0.0746                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5434             | 0.0400           | 0.5652             |
| 0.0500         | 0.5684             | 0.0700           | 0.5969             |
| 0.1100         | 0.6205             | 0.1200           | 0.6522             |
| 0.1700         | 0.6709             | 0.1800           | 0.7002             |
| 0.2200         | 0.7037             | 0.2100           | 0.7408             |
| 0.2700         | 0.7422             | 0.2700           | 0.7898             |
| 0.3200         | 0.7736             | 0.3100           | 0.8323             |
| 0.3600         | 0.8055             | 0.3700           | 0.8704             |
| 0.4100         | 0.8351             | 0.4200           | 0.9077             |
| 0.5100         | 0.8939             | 0.5300           | 0.9678             |
| 0.7200         | 0.9841             | 0.7300           | 1.0033             |
| 0.9100         | 0.9991             | 0.9400           | 1.0052             |
| 1.1100         | 1.0006             | 1.1500           | 1.0004             |
| 1.3000         | 0.9996             | 1.3500           | 0.9989             |
| 1.5300         | 1.0006             | 1.5500           | 1.0037             |
| 1.7400         | 0.9997             | 1.7500           | 1.0038             |
| 1.9400         | 0.9990             | 1.9500           | 1.0056             |
| 2.1400         | 0.9997             | 2.1600           | 1.0029             |
| 2.3500         | 1.0006             | 2.3700           | 1.0046             |
| 2.5500         | 1.0010             | 2.5800           | 1.0038             |

Flight 22 Test point 59

Sweep, deg = 30.2 Mach = 0.76 hp, ft = 20000. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 388.0 Rrho = 3163000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9055                     | 0.1901                      | 0.0974                  | 0.2 x/c          |
| Outboard station rake | 0.5806                     | 0.1559                      | 0.0740                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5192             | 0.0400           | 0.5183             |
| 0.0500         | 0.5559             | 0.0700           | 0.5700             |
| 0.1100         | 0.6089             | 0.1200           | 0.6366             |
| 0.1700         | 0.6588             | 0.1800           | 0.6918             |
| 0.2200         | 0.6938             | 0.2100           | 0.7526             |
| 0.2700         | 0.7355             | 0.2700           | 0.7854             |
| 0.3200         | 0.7726             | 0.3100           | 0.8314             |
| 0.3600         | 0.8059             | 0.3700           | 0.8734             |
| 0.4100         | 0.8360             | 0.4200           | 0.9137             |
| 0.5100         | 0.9000             | 0.5300           | 0.9749             |
| 0.7200         | 0.9900             | 0.7300           | 1.0033             |
| 0.9300         | 1.0002             | 0.9400           | 1.0050             |
| 1.1100         | 1.0007             | 1.1500           | 1.0006             |
| 1.3000         | 1.0002             | 1.3500           | 0.9982             |
| 1.5300         | 0.9997             | 1.5500           | 1.0029             |
| 1.7400         | 0.9989             | 1.7500           | 1.0025             |
| 1.9400         | 1.0003             | 1.9500           | 1.0041             |
| 2.1400         | 0.9993             | 2.1600           | 1.0022             |
| 2.3500         | 1.0010             | 2.3700           | 1.0031             |
| 2.5500         | 0.9996             | 2.5800           | 1.0031             |



Flight 22 Test point 60

Sweep, deg = 30.1 Mach = 0.75 hp, ft = 20100. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 381.5 Rnpu = 3129000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9151                     | 0.1929                      | 0.0985                  | 0.2 x/c          |
| Outboard station rake | 0.5683                     | 0.1552                      | 0.0731                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5151             | 0.0400           | 0.5132             |
| 0.0500         | 0.5495             | 0.0700           | 0.5620             |
| 0.1100         | 0.6064             | 0.1200           | 0.6319             |
| 0.1700         | 0.6557             | 0.1800           | 0.6859             |
| 0.2200         | 0.6911             | 0.2100           | 0.7305             |
| 0.2700         | 0.7299             | 0.2700           | 0.7847             |
| 0.3200         | 0.7645             | 0.3100           | 0.8328             |
| 0.3600         | 0.7994             | 0.3700           | 0.8783             |
| 0.4100         | 0.8302             | 0.4200           | 0.9193             |
| 0.5100         | 0.8980             | 0.5300           | 0.9808             |
| 0.7200         | 0.9899             | 0.7300           | 1.0028             |
| 0.9100         | 0.9998             | 0.9400           | 1.0043             |
| 1.1100         | 1.0002             | 1.1500           | 0.9987             |
| 1.3000         | 0.9998             | 1.3500           | 0.9980             |
| 1.5300         | 1.0007             | 1.5500           | 1.0022             |
| 1.7400         | 1.0000             | 1.7500           | 1.0020             |
| 1.9400         | 0.9992             | 1.9500           | 1.0053             |
| 2.1400         | 1.0001             | 2.1600           | 1.0012             |
| 2.3500         | 1.0001             | 2.3700           | 1.0026             |
| 2.5500         | 1.0003             | 2.5800           | 1.0022             |

Flight 22 Test point 61

Sweep, deg = 25.0 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 386.3 Rrho = 3149000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7290                     | 0.1904                      | 0.0933                  | 0.2 x/c          |
| Outboard station rake | 0.5438                     | 0.1629                      | 0.0688                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4328             | 0.0400           | 0.3112             |
| 0.0500         | 0.5058             | 0.0700           | 0.4587             |
| 0.1100         | 0.5816             | 0.1200           | 0.5851             |
| 0.1700         | 0.6464             | 0.1800           | 0.6702             |
| 0.2200         | 0.6871             | 0.2100           | 0.7265             |
| 0.2700         | 0.7329             | 0.2700           | 0.7911             |
| 0.3200         | 0.7748             | 0.3100           | 0.8440             |
| 0.3600         | 0.8154             | 0.3700           | 0.8960             |
| 0.4100         | 0.8481             | 0.4200           | 0.9415             |
| 0.5100         | 0.9165             | 0.5300           | 0.9940             |
| 0.7200         | 0.9970             | 0.7300           | 1.0015             |
| 0.9100         | 0.9997             | 0.9400           | 1.0016             |
| 1.1100         | 1.0009             | 1.1500           | 0.9982             |
| 1.3000         | 0.9999             | 1.3500           | 0.9972             |
| 1.5300         | 0.9998             | 1.5500           | 1.0017             |
| 1.7400         | 1.0010             | 1.7500           | 1.0014             |
| 1.9400         | 0.9999             | 1.9500           | 1.0021             |
| 2.1400         | 1.0002             | 2.1600           | 1.0002             |
| 2.3500         | 1.0009             | 2.3700           | 1.0013             |
| 2.5500         | 1.0007             | 2.5800           | 1.0008             |

Flight 22 Test point 62

Sweep, deg = 24.9 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 386.4 Rrho = 3153000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7347                     | 0.1992                      | 0.0965                  | 0.2 x/c          |
| Outboard station rake | 0.4807                     | 0.1585                      | 0.0648                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4170             | 0.0400           | 0.2983             |
| 0.0500         | 0.4899             | 0.0700           | 0.4575             |
| 0.1100         | 0.5720             | 0.1200           | 0.5868             |
| 0.1700         | 0.6369             | 0.1800           | 0.6718             |
| 0.2200         | 0.6804             | 0.2100           | 0.7292             |
| 0.2700         | 0.7207             | 0.2700           | 0.7999             |
| 0.3200         | 0.7608             | 0.3100           | 0.8580             |
| 0.3600         | 0.7990             | 0.3700           | 0.9117             |
| 0.4100         | 0.8327             | 0.4200           | 0.9543             |
| 0.5100         | 0.9062             | 0.5300           | 1.0004             |
| 0.7200         | 0.9946             | 0.7300           | 1.0052             |
| 0.9100         | 1.0002             | 0.9400           | 1.0062             |
| 1.1100         | 1.0018             | 1.1500           | 1.0035             |
| 1.3000         | 1.0001             | 1.3500           | 1.0000             |
| 1.5300         | 1.0011             | 1.5500           | 1.0055             |
| 1.7400         | 1.0001             | 1.7500           | 1.0046             |
| 1.9400         | 1.0007             | 1.9500           | 1.0059             |
| 2.1400         | 1.0002             | 2.1600           | 1.0032             |
| 2.3500         | 1.0002             | 2.3700           | 1.0057             |
| 2.5500         | 1.0010             | 2.5800           | 1.0056             |

Flight 22 Test point 63

Sweep, deg = 24.9 Mach = 0.75 hp, ft = 20200. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 379.2 Rnpu = 3116000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7267                     | 0.1881                      | 0.0913                  | 0.2 x/c          |
| Outboard station rake | 0.4390                     | 0.1381                      | 0.0557                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.4248 | 0.0400           | 0.3012 |
| 0.0500         | 0.4944 | 0.0700           | 0.4737 |
| 0.1100         | 0.5784 | 0.1200           | 0.6193 |
| 0.1700         | 0.6482 | 0.1800           | 0.7160 |
| 0.2200         | 0.6892 | 0.2100           | 0.7809 |
| 0.2700         | 0.7334 | 0.2700           | 0.8529 |
| 0.3200         | 0.7746 | 0.3100           | 0.9102 |
| 0.3600         | 0.8170 | 0.3700           | 0.9560 |
| 0.4100         | 0.8537 | 0.4200           | 0.9875 |
| 0.5100         | 0.9281 | 0.5300           | 0.9998 |
| 0.7200         | 0.9980 | 0.7300           | 1.0023 |
| 0.9100         | 0.9992 | 0.9400           | 1.0022 |
| 1.1100         | 1.0012 | 1.1500           | 0.9991 |
| 1.3000         | 0.9994 | 1.3500           | 0.9967 |
| 1.5300         | 1.0011 | 1.5500           | 1.0027 |
| 1.7400         | 0.9997 | 1.7500           | 1.0019 |
| 1.9400         | 1.0002 | 1.9500           | 1.0029 |
| 2.1400         | 1.0003 | 2.1600           | 1.0007 |
| 2.3500         | 1.0004 | 2.3700           | 1.0028 |
| 2.5500         | 1.0004 | 2.5800           | 1.0015 |

Flight 22 Test point 64

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 384.5 Rrho = 3145000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9509                     | 0.2299                      | 0.0973                  | 0.2 x/c          |
| Outboard station rake | 0.3261                     | 0.1179                      | 0.0423                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2719             | 0.0400           | 0.3217             |
| 0.0500         | 0.2318             | 0.0700           | 0.3740             |
| 0.1100         | 0.4633             | 0.1200           | 0.6461             |
| 0.1700         | 0.5849             | 0.1800           | 0.7831             |
| 0.2200         | 0.6421             | 0.2100           | 0.8639             |
| 0.2700         | 0.6927             | 0.2700           | 0.9390             |
| 0.3200         | 0.7385             | 0.3100           | 0.9834             |
| 0.3600         | 0.7832             | 0.3700           | 0.9977             |
| 0.4100         | 0.8201             | 0.4200           | 1.0015             |
| 0.5100         | 0.8973             | 0.5300           | 1.0001             |
| 0.7200         | 0.9940             | 0.7300           | 1.0020             |
| 0.9100         | 0.9991             | 0.9400           | 1.0025             |
| 1.1100         | 1.0001             | 1.1500           | 1.0006             |
| 1.3000         | 0.9999             | 1.3500           | 0.9993             |
| 1.5300         | 1.0013             | 1.5500           | 1.0022             |
| 1.7400         | 0.9998             | 1.7500           | 1.0026             |
| 1.9400         | 1.0004             | 1.9500           | 1.0032             |
| 2.1400         | 0.9992             | 2.1600           | 1.0004             |
| 2.3500         | 0.9997             | 2.3700           | 1.0022             |
| 2.5500         | 1.0005             | 2.5800           | 1.0023             |

Flight 22 Test point 65

Sweep, deg = 20.0 Mach = 0.76 hp, ft = 20100, Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 386.2 Rrho = 3148000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9161                     | 0.2441                      | 0.1006                  | 0.2 x/c          |
| Outboard station rake | 0.3890                     | 0.1068                      | 0.0415                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.2820 | 0.0400           | 0.2953 |
| 0.0500         | 0.1916 | 0.0700           | 0.5541 |
| 0.1100         | 0.4410 | 0.1200           | 0.7279 |
| 0.1700         | 0.5585 | 0.1800           | 0.8267 |
| 0.2200         | 0.6162 | 0.2100           | 0.8777 |
| 0.2700         | 0.6655 | 0.2700           | 0.9316 |
| 0.3200         | 0.7138 | 0.3100           | 0.9656 |
| 0.3600         | 0.7599 | 0.3700           | 0.9861 |
| 0.4100         | 0.7968 | 0.4200           | 0.9973 |
| 0.5100         | 0.8811 | 0.5300           | 0.9978 |
| 0.7200         | 0.9942 | 0.7300           | 1.0026 |
| 0.9100         | 0.9998 | 0.9400           | 1.0040 |
| 1.1100         | 1.0017 | 1.1500           | 0.9988 |
| 1.3000         | 1.0000 | 1.3500           | 0.9985 |
| 1.5300         | 0.9997 | 1.5500           | 1.0023 |
| 1.7400         | 1.0002 | 1.7500           | 1.0016 |
| 1.9400         | 0.9995 | 1.9500           | 1.0043 |
| 2.1400         | 0.9996 | 2.1600           | 1.0017 |
| 2.3500         | 1.0000 | 2.3700           | 1.0027 |
| 2.5500         | 0.9995 | 2.5800           | 1.0023 |

Flight 22 Test point 66

Sweep, deg = 20.0 Mach = 0.76 hp, ft = 20200. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 385.7 Rrho = 3143000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.8718                     | 0.2985                      | 0.1074                  | 0.2 x/c          |
| Outboard station rake | 0.5449                     | 0.1286                      | 0.0579                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2873             | 0.0400           | 0.3735             |
| 0.0500         | 0.0239             | 0.0700           | 0.5632             |
| 0.1100         | 0.3365             | 0.1200           | 0.6917             |
| 0.1700         | 0.4548             | 0.1800           | 0.7722             |
| 0.2200         | 0.5126             | 0.2100           | 0.8099             |
| 0.2700         | 0.5698             | 0.2700           | 0.8608             |
| 0.3200         | 0.6165             | 0.3100           | 0.9014             |
| 0.3600         | 0.6675             | 0.3700           | 0.9349             |
| 0.4100         | 0.7148             | 0.4200           | 0.9610             |
| 0.5100         | 0.8266             | 0.5300           | 0.9899             |
| 0.7200         | 0.9881             | 0.7300           | 1.0024             |
| 0.9100         | 1.0027             | 0.9400           | 1.0051             |
| 1.1100         | 1.0031             | 1.1500           | 1.0000             |
| 1.3000         | 1.0026             | 1.3500           | 0.9963             |
| 1.5300         | 1.0026             | 1.5500           | 1.0012             |
| 1.7400         | 1.0007             | 1.7500           | 1.0004             |
| 1.9400         | 0.9977             | 1.9500           | 1.0009             |
| 2.1400         | 0.9969             | 2.1600           | 1.0005             |
| 2.3500         | 0.9967             | 2.3700           | 1.0010             |
| 2.5500         | 0.9971             | 2.5800           | 1.0025             |

Flight 22 Test point 67

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = -0.3  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 436.0 R<sub>npu</sub> = 3374000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.8947                     | 0.2975                      | 0.0998                  | 0.2 x/c          |
| Outboard station rake | 0.5361                     | 0.2294                      | 0.0757                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5297             | 0.0400           | 0.5870             |
| 0.0500         | 0.4970             | 0.0700           | 0.5462             |
| 0.1100         | 0.3504             | 0.1200           | 0.3563             |
| 0.1700         | 0.1586             | 0.1800           | 0.1900             |
| 0.2200         | 0.3812             | 0.2100           | 0.4288             |
| 0.2700         | 0.5070             | 0.2700           | 0.5938             |
| 0.3200         | 0.6017             | 0.3100           | 0.7139             |
| 0.3600         | 0.6799             | 0.3700           | 0.8207             |
| 0.4100         | 0.7503             | 0.4200           | 0.9047             |
| 0.5100         | 0.8695             | 0.5300           | 0.9953             |
| 0.7200         | 0.9952             | 0.7300           | 1.0017             |
| 0.9100         | 1.0004             | 0.9400           | 1.0030             |
| 1.1100         | 1.0014             | 1.1500           | 0.9999             |
| 1.3000         | 1.0004             | 1.3500           | 0.9996             |
| 1.5300         | 1.0011             | 1.5500           | 1.0019             |
| 1.7400         | 1.0010             | 1.7500           | 1.0019             |
| 1.9400         | 1.0007             | 1.9500           | 1.0020             |
| 2.1400         | 0.9999             | 2.1600           | 0.9985             |
| 2.3500         | 0.9982             | 2.3700           | 0.9981             |
| 2.5500         | 0.9969             | 2.5800           | 0.9979             |



Flight 22 Test point 68

Sweep, deg = 20.0 Mach = 0.81 hp, ft = 20200. Angle of attack, deg = 7.6  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 439.6 Rnpu = 3382000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.8348                     | 0.3448                      | 0.0967                  | 0.2 x/c          |
| Outboard station rake | 0.5334                     | 0.2355                      | 0.0750                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3785             | 0.0400           | 0.6172             |
| 0.0500         | 0.3717             | 0.0700           | 0.5901             |
| 0.1100         | 0.2607             | 0.1200           | 0.4222             |
| 0.1700         | 0.0564             | 0.1800           | 0.1409             |
| 0.2200         | 0.2789             | 0.2100           | 0.3544             |
| 0.2700         | 0.4024             | 0.2700           | 0.5451             |
| 0.3200         | 0.5155             | 0.3100           | 0.6790             |
| 0.3600         | 0.6044             | 0.3700           | 0.8029             |
| 0.4100         | 0.6888             | 0.4200           | 0.9009             |
| 0.5100         | 0.8320             | 0.5300           | 0.9972             |
| 0.7200         | 0.9938             | 0.7300           | 1.0040             |
| 0.9100         | 1.0037             | 0.9400           | 1.0059             |
| 1.1100         | 1.0043             | 1.1500           | 1.0015             |
| 1.3000         | 1.0036             | 1.3500           | 1.0004             |
| 1.5300         | 1.0038             | 1.5500           | 1.0011             |
| 1.7400         | 1.0031             | 1.7500           | 0.9998             |
| 1.9400         | 1.0018             | 1.9500           | 0.9991             |
| 2.1400         | 0.9999             | 2.1600           | 0.9958             |
| 2.3500         | 0.9918             | 2.3700           | 0.9967             |
| 2.5500         | 0.9880             | 2.5800           | 0.9957             |

Flight 22 Test point 69

Sweep, deg = 20.0 Mach = 0.81 hp, ft = 20200. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 438.5 Rnpu = 3378000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 1.3518                     | 0.7304                      | 0.1668                  | 0.2 x/c          |
| Outboard station rake | 0.4722                     | 0.1912                      | 0.0572                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1727             | 0.0400           | 0.5859             |
| 0.0500         | 0.1767             | 0.0700           | 0.5214             |
| 0.1100         | 0.1897             | 0.1200           | 0.1190             |
| 0.1700         | 0.2177             | 0.1800           | 0.4614             |
| 0.2200         | 0.2278             | 0.2100           | 0.6385             |
| 0.2700         | 0.2425             | 0.2700           | 0.7794             |
| 0.3200         | 0.2476             | 0.3100           | 0.8671             |
| 0.3600         | 0.2274             | 0.3700           | 0.9269             |
| 0.4100         | 0.2164             | 0.4200           | 0.9642             |
| 0.5100         | 0.1164             | 0.5300           | 1.0021             |
| 0.7200         | 0.4557             | 0.7300           | 1.0091             |
| 0.9100         | 0.7352             | 0.9400           | 1.0103             |
| 1.1100         | 0.9274             | 1.1500           | 1.0076             |
| 1.3000         | 0.9852             | 1.3500           | 1.0071             |
| 1.5300         | 1.0003             | 1.5500           | 1.0072             |
| 1.7400         | 1.0024             | 1.7500           | 1.0019             |
| 1.9400         | 1.0037             | 1.9500           | 0.9995             |
| 2.1400         | 1.0026             | 2.1600           | 0.9989             |
| 2.3500         | 1.0030             | 2.3700           | 0.9954             |
| 2.5500         | 1.0028             | 2.5800           | 0.9956             |

Flight 22 Test point 70

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = -0.3  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 432.7 R<sub>pu</sub> = 3359000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9067                     | 0.2483                      | 0.1051                  | 0.2 x/c          |
| Outboard station rake | 0.7150                     | 0.2350                      | 0.0813                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2917             | 0.0400           | 0.2208             |
| 0.0500         | 0.3671             | 0.0700           | 0.1669             |
| 0.1100         | 0.4493             | 0.1200           | 0.3820             |
| 0.1700         | 0.5210             | 0.1800           | 0.4933             |
| 0.2200         | 0.5695             | 0.2100           | 0.5651             |
| 0.2700         | 0.6220             | 0.2700           | 0.6517             |
| 0.3200         | 0.6770             | 0.3100           | 0.7295             |
| 0.3600         | 0.7312             | 0.3700           | 0.8050             |
| 0.4100         | 0.7826             | 0.4200           | 0.8730             |
| 0.5100         | 0.8803             | 0.5300           | 0.9720             |
| 0.7200         | 0.9968             | 0.7300           | 1.0020             |
| 0.9100         | 1.0000             | 0.9400           | 1.0033             |
| 1.1100         | 1.0008             | 1.1500           | 1.0005             |
| 1.3000         | 0.9995             | 1.3500           | 0.9979             |
| 1.5300         | 0.9994             | 1.5500           | 1.0009             |
| 1.7400         | 0.9999             | 1.7500           | 0.9993             |
| 1.9400         | 0.9995             | 1.9500           | 1.0011             |
| 2.1400         | 1.0004             | 2.1600           | 0.9986             |
| 2.3500         | 1.0011             | 2.3700           | 0.9985             |
| 2.5500         | 0.9994             | 2.5800           | 0.9980             |

light 22 Test point 71

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 20200. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 434.5 Rnpu = 3357000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.8197                     | 0.2807                      | 0.0928                  | 0.2 x/c          |
| Outboard station rake | 0.7106                     | 0.2453                      | 0.0805                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.3420 | 0.0400           | 0.3957 |
| 0.0500         | 0.2825 | 0.0700           | 0.3091 |
| 0.1100         | 0.2128 | 0.1200           | 0.2553 |
| 0.1700         | 0.4144 | 0.1800           | 0.4388 |
| 0.2200         | 0.5167 | 0.2100           | 0.5433 |
| 0.2700         | 0.6016 | 0.2700           | 0.6495 |
| 0.3200         | 0.6768 | 0.3100           | 0.7311 |
| 0.3600         | 0.7420 | 0.3700           | 0.8087 |
| 0.4100         | 0.7988 | 0.4200           | 0.8722 |
| 0.5100         | 0.8926 | 0.5300           | 0.9660 |
| 0.7200         | 0.9973 | 0.7300           | 1.0032 |
| 0.9100         | 1.0022 | 0.9400           | 1.0040 |
| 1.1100         | 1.0030 | 1.1500           | 1.0024 |
| 1.3000         | 1.0017 | 1.3500           | 1.0015 |
| 1.5300         | 1.0027 | 1.5500           | 1.0036 |
| 1.7400         | 1.0030 | 1.7500           | 1.0025 |
| 1.9400         | 1.0021 | 1.9500           | 1.0023 |
| 2.1400         | 1.0009 | 2.1600           | 0.9941 |
| 2.3500         | 0.9942 | 2.3700           | 0.9934 |
| 2.5500         | 0.9903 | 2.5800           | 0.9930 |

Flight 22 Test point 72

Sweep, deg = 30.8 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 436.7 Rrho = 3375000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9329                     | 0.2124                      | 0.1027                  | 0.2 x/c          |
| Outboard station rake | 0.5747                     | 0.1733                      | 0.0785                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4770             | 0.0400           | 0.4684             |
| 0.0500         | 0.5089             | 0.0700           | 0.5184             |
| 0.1100         | 0.5615             | 0.1200           | 0.5909             |
| 0.1700         | 0.6123             | 0.1800           | 0.6473             |
| 0.2200         | 0.6481             | 0.2100           | 0.6927             |
| 0.2700         | 0.6902             | 0.2700           | 0.7525             |
| 0.3200         | 0.7314             | 0.3100           | 0.8015             |
| 0.3600         | 0.7717             | 0.3700           | 0.8526             |
| 0.4100         | 0.8090             | 0.4200           | 0.9007             |
| 0.5100         | 0.8900             | 0.5300           | 0.9734             |
| 0.7200         | 0.9924             | 0.7300           | 1.0018             |
| 0.9100         | 0.9993             | 0.9400           | 1.0013             |
| 1.1100         | 1.0003             | 1.1500           | 0.9985             |
| 1.3000         | 1.0001             | 1.3500           | 0.9972             |
| 1.5300         | 1.0000             | 1.5500           | 0.9999             |
| 1.7400         | 1.0004             | 1.7500           | 1.0004             |
| 1.9400         | 1.0001             | 1.9500           | 1.0012             |
| 2.1400         | 0.9990             | 2.1600           | 0.9991             |
| 2.3500         | 1.0005             | 2.3700           | 1.0009             |
| 2.5500         | 1.0003             | 2.5800           | 0.9998             |

Flight 23 Test point 1

Sweep, deg = 20.4 Mach = 0.70 hp, ft = 9900. Angle of attack, deg = -0.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 501.2 Rnpu = 4176000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7250                     | 0.1718                      | 0.0812                  | 0.2 x/c          |
| Outboard station rake | 0.5503                     | 0.1737                      | 0.0703                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2620             | 0.0400           | 0.3383             |
| 0.0500         | 0.4456             | 0.0700           | 0.2815             |
| 0.1100         | 0.5923             | 0.1200           | 0.5378             |
| 0.1700         | 0.6836             | 0.1800           | 0.6519             |
| 0.2200         | 0.7328             | 0.2100           | 0.7157             |
| 0.2700         | 0.7780             | 0.2700           | 0.7838             |
| 0.3200         | 0.8190             | 0.3100           | 0.8376             |
| 0.3600         | 0.8562             | 0.3700           | 0.8876             |
| 0.4100         | 0.8892             | 0.4200           | 0.9295             |
| 0.5100         | 0.9505             | 0.5300           | 0.9899             |
| 0.7200         | 0.9990             | 0.7300           | 1.0014             |
| 0.9100         | 1.0000             | 0.9400           | 1.0014             |
| 1.1100         | 1.0001             | 1.1500           | 0.9996             |
| 1.3000         | 0.9995             | 1.3500           | 0.9990             |
| 1.5300         | 1.0002             | 1.5500           | 1.0015             |
| 1.7400         | 1.0002             | 1.7500           | 1.0012             |
| 1.9400         | 0.9998             | 1.9500           | 1.0020             |
| 2.1400         | 0.9997             | 2.1600           | 1.0000             |
| 2.3500         | 1.0007             | 2.3700           | 1.0024             |
| 2.5500         | 1.0009             | 2.5800           | 1.0016             |

Flight 23 Test point 2

Sweep, deg = 20.1 Mach = 0.70 hp, ft = 10100. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 492.6 Rrho = 4128000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7235                     | 0.1766                      | 0.0787                  | 0.2 x/c          |
| Outboard station rake | 0.5514                     | 0.1757                      | 0.0693                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1540             | 0.0400           | 0.4061             |
| 0.0500         | 0.3988             | 0.0700           | 0.1959             |
| 0.1100         | 0.5717             | 0.1200           | 0.5191             |
| 0.1700         | 0.6695             | 0.1800           | 0.6504             |
| 0.2200         | 0.7241             | 0.2100           | 0.7128             |
| 0.2700         | 0.7735             | 0.2700           | 0.7826             |
| 0.3200         | 0.8191             | 0.3100           | 0.8367             |
| 0.3600         | 0.8591             | 0.3700           | 0.8881             |
| 0.4100         | 0.8957             | 0.4200           | 0.9315             |
| 0.5100         | 0.9572             | 0.5300           | 0.9897             |
| 0.7200         | 0.9994             | 0.7300           | 1.0010             |
| 0.9100         | 0.9997             | 0.9400           | 1.0021             |
| 1.1100         | 1.0001             | 1.1500           | 0.9998             |
| 1.3000         | 1.0002             | 1.3500           | 0.9982             |
| 1.5300         | 0.9990             | 1.5500           | 1.0013             |
| 1.7400         | 1.0006             | 1.7500           | 1.0014             |
| 1.9400         | 0.9998             | 1.9500           | 1.0018             |
| 2.1400         | 0.9994             | 2.1600           | 1.0008             |
| 2.3500         | 1.0009             | 2.3700           | 1.0020             |
| 2.5500         | 1.0009             | 2.5800           | 1.0019             |

Flight 23 Test point 3

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 10100. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 493.1 Rrho = 4129000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7261                     | 0.1919                      | 0.0839                  | 0.2 x/c          |
| Outboard station rake | 0.5578                     | 0.1857                      | 0.0675                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1216             | 0.0400           | 0.4593             |
| 0.0500         | 0.3590             | 0.0700           | 0.0454             |
| 0.1100         | 0.5477             | 0.1200           | 0.4927             |
| 0.1700         | 0.6493             | 0.1800           | 0.6313             |
| 0.2200         | 0.7026             | 0.2100           | 0.7021             |
| 0.2700         | 0.7519             | 0.2700           | 0.7715             |
| 0.3200         | 0.7980             | 0.3100           | 0.8283             |
| 0.3600         | 0.8383             | 0.3700           | 0.8800             |
| 0.4100         | 0.8729             | 0.4200           | 0.9221             |
| 0.5100         | 0.9392             | 0.5300           | 0.9855             |
| 0.7200         | 0.9985             | 0.7300           | 1.0015             |
| 0.9100         | 0.9998             | 0.9400           | 1.0025             |
| 1.1100         | 1.0009             | 1.1500           | 1.0005             |
| 1.3000         | 0.9991             | 1.3500           | 0.9988             |
| 1.5300         | 0.9990             | 1.5500           | 1.0012             |
| 1.7400         | 1.0007             | 1.7500           | 1.0012             |
| 1.9400         | 1.0007             | 1.9500           | 1.0023             |
| 2.1400         | 0.9992             | 2.1600           | 1.0007             |
| 2.3500         | 1.0010             | 2.3700           | 1.0030             |
| 2.5500         | 1.0013             | 2.5800           | 1.0028             |



Flight 23 Test point 4

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 10200. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 499.9 Rrho = 4156000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7313                     | 0.1956                      | 0.0861                  | 0.2 x/c          |
| Outboard station rake | 0.5604                     | 0.1846                      | 0.0704                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.1808 | 0.0400           | 0.4776 |
| 0.0500         | 0.3374 | 0.0700           | 0.1262 |
| 0.1100         | 0.5337 | 0.1200           | 0.4787 |
| 0.1700         | 0.6427 | 0.1800           | 0.6276 |
| 0.2200         | 0.6989 | 0.2100           | 0.6962 |
| 0.2700         | 0.7450 | 0.2700           | 0.7696 |
| 0.3200         | 0.7907 | 0.3100           | 0.8248 |
| 0.3600         | 0.8315 | 0.3700           | 0.8772 |
| 0.4100         | 0.8689 | 0.4200           | 0.9199 |
| 0.5100         | 0.9349 | 0.5300           | 0.9840 |
| 0.7200         | 0.9971 | 0.7300           | 1.0010 |
| 0.9100         | 0.9995 | 0.9400           | 1.0031 |
| 1.1100         | 1.0007 | 1.1500           | 1.0008 |
| 1.3000         | 0.9999 | 1.3500           | 0.9991 |
| 1.5300         | 0.9998 | 1.5500           | 1.0020 |
| 1.7400         | 1.0010 | 1.7500           | 1.0021 |
| 1.9400         | 1.0011 | 1.9500           | 1.0027 |
| 2.1400         | 0.9995 | 2.1600           | 1.0013 |
| 2.3500         | 1.0006 | 2.3700           | 1.0029 |
| 2.5500         | 1.0009 | 2.5800           | 1.0013 |

Flight 23 Test point 5

Sweep, deg = 25.4 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 499.6 Rrho = 4166000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7345                     | 0.1656                      | 0.0876                  | 0.2 x/c          |
| Outboard station rake | 0.5532                     | 0.1285                      | 0.0672                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5201             | 0.0400           | 0.5058             |
| 0.0500         | 0.5738             | 0.0700           | 0.5853             |
| 0.1100         | 0.6367             | 0.1200           | 0.6643             |
| 0.1700         | 0.6956             | 0.1800           | 0.7277             |
| 0.2200         | 0.7336             | 0.2100           | 0.7699             |
| 0.2700         | 0.7717             | 0.2700           | 0.8190             |
| 0.3200         | 0.8053             | 0.3100           | 0.8610             |
| 0.3600         | 0.8383             | 0.3700           | 0.9009             |
| 0.4100         | 0.8700             | 0.4200           | 0.9359             |
| 0.5100         | 0.9269             | 0.5300           | 0.9877             |
| 0.7200         | 0.9959             | 0.7300           | 1.0021             |
| 0.9100         | 0.9998             | 0.9400           | 1.0022             |
| 1.1100         | 1.0006             | 1.1500           | 0.9992             |
| 1.3000         | 1.0002             | 1.3500           | 0.9992             |
| 1.5300         | 1.0001             | 1.5500           | 1.0016             |
| 1.7400         | 1.0003             | 1.7500           | 1.0013             |
| 1.9400         | 1.0010             | 1.9500           | 1.0024             |
| 2.1400         | 0.9997             | 2.1600           | 1.0003             |
| 2.3500         | 1.0010             | 2.3700           | 1.0029             |
| 2.5500         | 1.0014             | 2.5800           | 1.0011             |

Flight 23 Test point 6

Sweep angle = 25.4 Mach = 0.70 hp, ft = 10100. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 493.3 Rrho = 4138000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7356                     | 0.1639                      | 0.0866                  | 0.2 x/c          |
| Outboard station rake | 0.5181                     | 0.1366                      | 0.0654                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5191             | 0.0400           | 0.5084             |
| 0.0500         | 0.5735             | 0.0700           | 0.5848             |
| 0.1100         | 0.6395             | 0.1200           | 0.6653             |
| 0.1700         | 0.6977             | 0.1800           | 0.7304             |
| 0.2200         | 0.7339             | 0.2100           | 0.7716             |
| 0.2700         | 0.7731             | 0.2700           | 0.8226             |
| 0.3200         | 0.8072             | 0.3100           | 0.8657             |
| 0.3600         | 0.8411             | 0.3700           | 0.9050             |
| 0.4100         | 0.8712             | 0.4200           | 0.9397             |
| 0.5100         | 0.9319             | 0.5300           | 0.9901             |
| 0.7200         | 0.9959             | 0.7300           | 1.0019             |
| 0.9100         | 1.0007             | 0.9400           | 1.0023             |
| 1.1100         | 1.0013             | 1.1500           | 0.9997             |
| 1.3000         | 1.0000             | 1.3500           | 0.9977             |
| 1.5300         | 1.0008             | 1.5500           | 1.0014             |
| 1.7400         | 1.0007             | 1.7500           | 1.0008             |
| 1.9400         | 0.9996             | 1.9500           | 1.0016             |
| 2.1400         | 0.9994             | 2.1600           | 1.0006             |
| 2.3500         | 1.0006             | 2.3700           | 1.0020             |
| 2.5500         | 1.0012             | 2.5800           | 1.0019             |

Flight 23 Test point 7

Sweep, deg = 25.4 Mach = 0.70 hp, ft = 10100. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 499.3 Rrho = 4170000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7421                     | 0.1755                      | 0.0913                  | 0.2 x/c          |
| Outboard station rake | 0.5664                     | 0.1529                      | 0.0717                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.4919 | 0.0400           | 0.4368 |
| 0.0500         | 0.5524 | 0.0700           | 0.5388 |
| 0.1100         | 0.6238 | 0.1200           | 0.6309 |
| 0.1700         | 0.6824 | 0.1800           | 0.7019 |
| 0.2200         | 0.7206 | 0.2100           | 0.7451 |
| 0.2700         | 0.7585 | 0.2700           | 0.7976 |
| 0.3200         | 0.7929 | 0.3100           | 0.8420 |
| 0.3600         | 0.8272 | 0.3700           | 0.8857 |
| 0.4100         | 0.8573 | 0.4200           | 0.9236 |
| 0.5100         | 0.9166 | 0.5300           | 0.9825 |
| 0.7200         | 0.9930 | 0.7300           | 1.0013 |
| 0.9100         | 0.9998 | 0.9400           | 1.0025 |
| 1.1100         | 1.0007 | 1.1500           | 1.0002 |
| 1.3000         | 1.0001 | 1.3500           | 0.9996 |
| 1.5300         | 1.0016 | 1.5500           | 1.0025 |
| 1.7400         | 1.0014 | 1.7500           | 1.0026 |
| 1.9400         | 1.0001 | 1.9500           | 1.0023 |
| 2.1400         | 1.0001 | 2.1600           | 1.0014 |
| 2.3500         | 1.0015 | 2.3700           | 1.0027 |
| 2.5500         | 1.0016 | 2.5800           | 1.0024 |

Flight 23 Test point 8

Sweep, deg = 30.5 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 501.3 R<sub>npu</sub> = 4171000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7396                     | 0.1568                      | 0.0851                  | 0.2 x/c          |
| Outboard station rake | 0.5514                     | 0.1266                      | 0.0641                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5747             | 0.0400           | 0.6004             |
| 0.0500         | 0.6085             | 0.0700           | 0.6385             |
| 0.1100         | 0.6606             | 0.1200           | 0.6963             |
| 0.1700         | 0.7133             | 0.1800           | 0.7480             |
| 0.2200         | 0.7465             | 0.2100           | 0.7858             |
| 0.2700         | 0.7831             | 0.2700           | 0.8315             |
| 0.3200         | 0.8140             | 0.3100           | 0.8707             |
| 0.3600         | 0.8470             | 0.3700           | 0.9084             |
| 0.4100         | 0.8763             | 0.4200           | 0.9406             |
| 0.5100         | 0.9300             | 0.5300           | 0.9895             |
| 0.7200         | 0.9948             | 0.7300           | 1.0020             |
| 0.9100         | 1.0001             | 0.9400           | 1.0027             |
| 1.1100         | 1.0002             | 1.1500           | 1.0006             |
| 1.3000         | 1.0008             | 1.3500           | 0.9988             |
| 1.5300         | 1.0012             | 1.5500           | 1.0010             |
| 1.7400         | 1.0016             | 1.7500           | 1.0008             |
| 1.9400         | 1.0003             | 1.9500           | 1.0020             |
| 2.1400         | 0.9993             | 2.1600           | 1.0003             |
| 2.3500         | 1.0005             | 2.3700           | 1.0018             |
| 2.5500         | 1.0011             | 2.5800           | 1.0006             |

Flight 23 Test point 9

Sweep, deg = 30.5 Mach = 0.70 hp, ft = 9900. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 499.0 Rrho = 4163000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7351                     | 0.1567                      | 0.0851                  | 0.2 x/c          |
| Outboard station rake | 0.5539                     | 0.1261                      | 0.0637                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5754 | 0.0400           | 0.6025 |
| 0.0500         | 0.6068 | 0.0700           | 0.6407 |
| 0.1100         | 0.6626 | 0.1200           | 0.6959 |
| 0.1700         | 0.7119 | 0.1800           | 0.73   |
| 0.2200         | 0.7474 | 0.2100           | 0.7891 |
| 0.2700         | 0.7805 | 0.2700           | 0.8345 |
| 0.3200         | 0.8138 | 0.3100           | 0.8721 |
| 0.3600         | 0.8475 | 0.3700           | 0.9101 |
| 0.4100         | 0.8752 | 0.4200           | 0.9416 |
| 0.5100         | 0.9299 | 0.5300           | 0.9887 |
| 0.7200         | 0.9959 | 0.7300           | 1.0019 |
| 0.9100         | 1.0000 | 0.9400           | 1.0020 |
| 1.1100         | 1.0005 | 1.1500           | 0.9998 |
| 1.3000         | 1.0001 | 1.3500           | 0.9986 |
| 1.5300         | 1.0007 | 1.5500           | 1.0018 |
| 1.7400         | 1.0016 | 1.7500           | 1.0007 |
| 1.9400         | 0.9998 | 1.9500           | 1.0031 |
| 2.1400         | 0.9993 | 2.1600           | 1.0003 |
| 2.3500         | 1.0010 | 2.3700           | 1.0022 |
| 2.5500         | 1.0010 | 2.5800           | 1.0010 |

Flight 23 Test point 10

Sweep, deg = 30.5 Mach = 0.70 hp, ft = 10100. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 501.8 Rnpu = 4177000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7504                     | 0.1705                      | 0.0913                  | 0.2 x/c          |
| Outboard station rake | 0.5747                     | 0.1383                      | 0.0694                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5600             | 0.0400           | 0.5807             |
| 0.0500         | 0.5942             | 0.0700           | 0.6222             |
| 0.1100         | 0.6452             | 0.1200           | 0.6794             |
| 0.1700         | 0.6928             | 0.1800           | 0.7284             |
| 0.2200         | 0.7275             | 0.2100           | 0.7687             |
| 0.2700         | 0.7628             | 0.2700           | 0.8127             |
| 0.3200         | 0.7945             | 0.3100           | 0.8505             |
| 0.3600         | 0.8271             | 0.3700           | 0.8892             |
| 0.4100         | 0.8558             | 0.4200           | 0.9225             |
| 0.5100         | 0.9134             | 0.5300           | 0.9794             |
| 0.7200         | 0.9903             | 0.7300           | 1.0029             |
| 0.9100         | 1.0007             | 0.9400           | 1.0036             |
| 1.1100         | 1.0012             | 1.1500           | 1.0006             |
| 1.3000         | 1.0004             | 1.3500           | 0.9995             |
| 1.5300         | 1.0014             | 1.5500           | 1.0027             |
| 1.7400         | 1.0014             | 1.7500           | 1.0027             |
| 1.9400         | 1.0007             | 1.9500           | 1.0033             |
| 2.1400         | 1.0007             | 2.1600           | 1.0003             |
| 2.3500         | 1.0014             | 2.3700           | 1.0027             |
| 2.5500         | 1.0017             | 2.5800           | 1.0023             |

Sweep, deg = 34.9 Mach = 0.71 hp, ft = 9900. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 510.8 Rrho = 4217000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | 0.7415                        | 0.1554                         | 0.0850                     | 0.2 x/c             |
| Outboard station rake | 0.5595                        | 0.1238                         | 0.0633                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5846 | 0.0400           | 0.6162 |
| 0.0500         | 0.6148 | 0.0700           | 0.6479 |
| 0.1100         | 0.6669 | 0.1200           | 0.7053 |
| 0.1700         | 0.7164 | 0.1800           | 0.7553 |
| 0.2200         | 0.7498 | 0.2100           | 0.7947 |
| 0.2700         | 0.7853 | 0.2700           | 0.8376 |
| 0.3200         | 0.8176 | 0.3100           | 0.8752 |
| 0.3600         | 0.8476 | 0.3700           | 0.9105 |
| 0.4100         | 0.8756 | 0.4200           | 0.9399 |
| 0.5100         | 0.9284 | 0.5300           | 0.9871 |
| 0.7200         | 0.9942 | 0.7300           | 1.0025 |
| 0.9100         | 0.9997 | 0.9400           | 1.0022 |
| 1.1100         | 1.0012 | 1.1500           | 1.0003 |
| 1.3000         | 1.0006 | 1.3500           | 0.9981 |
| 1.5300         | 1.0011 | 1.5500           | 1.0020 |
| 1.7400         | 1.0015 | 1.7500           | 1.0016 |
| 1.9400         | 0.9999 | 1.9500           | 1.0021 |
| 2.1400         | 0.9995 | 2.1600           | 1.0007 |
| 2.3500         | 1.0015 | 2.3700           | 1.0024 |
| 2.5500         | 1.0009 | 2.5800           | 1.0010 |



Flight 23 Test point 12

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 9900. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 497.5 R<sub>npu</sub> = 4150000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7446                     | 0.1578                      | 0.0863                  | 0.2 x/c          |
| Outboard station rake | 0.5613                     | 0.1256                      | 0.0641                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5869             | 0.0400           | 0.6144             |
| 0.0500         | 0.6119             | 0.0700           | 0.6436             |
| 0.1100         | 0.6641             | 0.1200           | 0.7016             |
| 0.1700         | 0.7134             | 0.1800           | 0.7522             |
| 0.2200         | 0.7455             | 0.2100           | 0.7908             |
| 0.2700         | 0.7811             | 0.2700           | 0.8345             |
| 0.3200         | 0.8142             | 0.3100           | 0.8718             |
| 0.3600         | 0.8451             | 0.3700           | 0.9064             |
| 0.4100         | 0.8724             | 0.4200           | 0.9382             |
| 0.5100         | 0.9245             | 0.5300           | 0.9855             |
| 0.7200         | 0.9931             | 0.7300           | 1.0030             |
| 0.9100         | 0.9994             | 0.9400           | 1.0036             |
| 1.1100         | 1.0012             | 1.1500           | 1.0002             |
| 1.3000         | 1.0006             | 1.3500           | 0.9986             |
| 1.5300         | 1.0003             | 1.5500           | 1.0005             |
| 1.7400         | 1.0019             | 1.7500           | 1.0018             |
| 1.9400         | 1.0009             | 1.9500           | 1.0023             |
| 2.1400         | 1.0006             | 2.1600           | 1.0003             |
| 2.3500         | 1.0016             | 2.3700           | 1.0032             |
| 2.5500         | 1.0006             | 2.5800           | 1.0009             |

Flight 23 Test point 13

Sweep, deg = 34.9 Mach = 0.71 hp, ft = 10100. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 507.4 Rrho = 4191000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7557                     | 0.1664                      | 0.0900                  | 0.2 x/c          |
| Outboard station rake | 0.5859                     | 0.1334                      | 0.0679                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5755             | 0.0400           | 0.6071             |
| 0.0500         | 0.6027             | 0.0700           | 0.6358             |
| 0.1100         | 0.6557             | 0.1200           | 0.6899             |
| 0.1700         | 0.7010             | 0.1800           | 0.7395             |
| 0.2200         | 0.7341             | 0.2100           | 0.7781             |
| 0.2700         | 0.7695             | 0.2700           | 0.8215             |
| 0.3200         | 0.8014             | 0.3100           | 0.8574             |
| 0.3600         | 0.8336             | 0.3700           | 0.8949             |
| 0.4100         | 0.8605             | 0.4200           | 0.9279             |
| 0.5100         | 0.9156             | 0.5300           | 0.9777             |
| 0.7200         | 0.9892             | 0.7300           | 1.0030             |
| 0.9100         | 1.0008             | 0.9400           | 1.0028             |
| 1.1100         | 1.0014             | 1.1500           | 1.0018             |
| 1.3000         | 1.0009             | 1.3500           | 0.9997             |
| 1.5300         | 1.0010             | 1.5500           | 1.0023             |
| 1.7400         | 1.0013             | 1.7500           | 1.0024             |
| 1.9400         | 1.0001             | 1.9500           | 1.0032             |
| 2.1400         | 1.0007             | 2.1600           | 1.0012             |
| 2.3500         | 1.0022             | 2.3700           | 1.0027             |
| 2.5500         | 1.0022             | 2.5800           | 1.0031             |

Flight 23 Test point 14

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 336.9 Rnpu = 2992000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7285                     | 0.1871                      | 0.0809                  | 0.2 x/c          |
| Outboard station rake | 0.5380                     | 0.1735                      | 0.0706                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2560             | 0.0400           | 0.5451             |
| 0.0500         | 0.2950             | 0.0700           | 0.3045             |
| 0.1100         | 0.5165             | 0.1200           | 0.4304             |
| 0.1700         | 0.6382             | 0.1800           | 0.6101             |
| 0.2200         | 0.7012             | 0.2100           | 0.6868             |
| 0.2700         | 0.7552             | 0.2700           | 0.7710             |
| 0.3200         | 0.8059             | 0.3100           | 0.8381             |
| 0.3600         | 0.8499             | 0.3700           | 0.8956             |
| 0.4100         | 0.8889             | 0.4200           | 0.9426             |
| 0.5100         | 0.9599             | 0.5300           | 0.9964             |
| 0.7200         | 0.9987             | 0.7300           | 1.0005             |
| 0.9100         | 0.9989             | 0.9400           | 1.0016             |
| 1.1100         | 1.0005             | 1.1500           | 0.9976             |
| 1.3000         | 1.0002             | 1.3500           | 0.9966             |
| 1.5300         | 0.9997             | 1.5500           | 1.0009             |
| 1.7400         | 1.0014             | 1.7500           | 1.0014             |
| 1.9400         | 1.0001             | 1.9500           | 1.0016             |
| 2.1400         | 0.9991             | 2.1600           | 0.9992             |
| 2.3500         | 1.0005             | 2.3700           | 1.0024             |
| 2.5500         | 1.0009             | 2.5800           | 1.0017             |

Flight 23 Test point 15

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 20100. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 334.0 Rnpu = 2968000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7397                     | 0.1835                      | 0.0793                  | 0.2 x/c          |
| Outboard station rake | 0.5409                     | 0.1735                      | 0.0695                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2346             | 0.0400           | 0.5222             |
| 0.0500         | 0.3021             | 0.0700           | 0.2492             |
| 0.1100         | 0.5287             | 0.1200           | 0.4541             |
| 0.1700         | 0.6464             | 0.1800           | 0.6218             |
| 0.2200         | 0.7069             | 0.2100           | 0.6955             |
| 0.2700         | 0.7614             | 0.2700           | 0.7770             |
| 0.3200         | 0.8105             | 0.3100           | 0.8404             |
| 0.3600         | 0.8571             | 0.3700           | 0.8965             |
| 0.4100         | 0.8963             | 0.4200           | 0.9435             |
| 0.5100         | 0.9640             | 0.5300           | 0.9953             |
| 0.7200         | 0.9973             | 0.7300           | 1.0004             |
| 0.9100         | 0.9988             | 0.9400           | 1.0024             |
| 1.1100         | 1.0002             | 1.1500           | 0.9978             |
| 1.3000         | 0.9992             | 1.3500           | 0.9964             |
| 1.5300         | 1.0009             | 1.5500           | 1.0004             |
| 1.7400         | 1.0009             | 1.7500           | 1.0008             |
| 1.9400         | 1.0007             | 1.9500           | 1.0032             |
| 2.1400         | 0.9998             | 2.1600           | 0.9997             |
| 2.3500         | 1.0011             | 2.3700           | 1.0025             |
| 2.5500         | 1.0011             | 2.5800           | 1.0011             |

Flight 23 Test point 16

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 19900. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.6 QBAR, lb/ft<sup>2</sup> = 334.0 Rrho = 2975000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7301                     | 0.1908                      | 0.0822                  | 0.2 x/c          |
| Outboard station rake | 0.5370                     | 0.1725                      | 0.0712                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2782             | 0.0400           | 0.5997             |
| 0.0500         | 0.2694             | 0.0700           | 0.3786             |
| 0.1100         | 0.5099             | 0.1200           | 0.3885             |
| 0.1700         | 0.6350             | 0.1800           | 0.5910             |
| 0.2200         | 0.6947             | 0.2100           | 0.6770             |
| 0.2700         | 0.7488             | 0.2700           | 0.7689             |
| 0.3200         | 0.7988             | 0.3100           | 0.8360             |
| 0.3600         | 0.8435             | 0.3700           | 0.8953             |
| 0.4100         | 0.8851             | 0.4200           | 0.9428             |
| 0.5100         | 0.9556             | 0.5300           | 0.9968             |
| 0.7200         | 0.9982             | 0.7300           | 0.9995             |
| 0.9100         | 0.9997             | 0.9400           | 1.0021             |
| 1.1100         | 0.9996             | 1.1500           | 0.9975             |
| 1.3000         | 1.0000             | 1.3500           | 0.9952             |
| 1.5300         | 0.9999             | 1.5500           | 1.0014             |
| 1.7400         | 1.0008             | 1.7500           | 1.0009             |
| 1.9400         | 1.0005             | 1.9500           | 1.0027             |
| 2.1400         | 0.9993             | 2.1600           | 1.0001             |
| 2.3500         | 1.0014             | 2.3700           | 1.0012             |
| 2.5500         | 1.0005             | 2.5800           | 1.0025             |

Flight 23 Test point 17

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 385.6 Rrho = 3221000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7256                     | 0.2076                      | 0.0847                  | 0.2 x/c          |
| Outboard station rake | 0.5392                     | 0.1900                      | 0.0741                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3198             | 0.0400           | 0.6229             |
| 0.0500         | 0.1837             | 0.0700           | 0.4594             |
| 0.1100         | 0.4674             | 0.1200           | 0.2620             |
| 0.1700         | 0.5983             | 0.1800           | 0.5210             |
| 0.2200         | 0.6614             | 0.2100           | 0.6271             |
| 0.2700         | 0.7192             | 0.2700           | 0.7267             |
| 0.3200         | 0.7731             | 0.3100           | 0.8005             |
| 0.3600         | 0.8224             | 0.3700           | 0.8671             |
| 0.4100         | 0.8681             | 0.4200           | 0.9242             |
| 0.5100         | 0.9478             | 0.5300           | 0.9946             |
| 0.7200         | 0.9988             | 0.7300           | 0.9994             |
| 0.9100         | 0.9991             | 0.9400           | 1.0015             |
| 1.1100         | 1.0011             | 1.1500           | 0.9986             |
| 1.3000         | 1.0010             | 1.3500           | 0.9979             |
| 1.5300         | 0.9994             | 1.5500           | 1.0009             |
| 1.7400         | 1.0009             | 1.7500           | 1.0012             |
| 1.9400         | 1.0003             | 1.9500           | 1.0022             |
| 2.1400         | 0.9982             | 2.1600           | 1.0000             |
| 2.3500         | 1.0008             | 2.3700           | 1.0023             |
| 2.5500         | 1.0005             | 2.5800           | 1.0016             |

Flight 23 Test point 18

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 19900. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 384.8 Rrho = 3221000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7241                     | 0.2082                      | 0.0855                  | 0.2 x/c          |
| Outboard station rake | 0.5394                     | 0.1906                      | 0.0724                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.8400             | 0.2400           | 0.6531             |
| 0.0500         | 0.1866             | 0.0700           | 0.4957             |
| 0.1100         | 0.4661             | 0.1200           | 0.2074             |
| 0.1700         | 0.5974             | 0.1800           | 0.5095             |
| 0.2200         | 0.6586             | 0.2100           | 0.6231             |
| 0.2700         | 0.7161             | 0.2700           | 0.7238             |
| 0.3200         | 0.7727             | 0.3100           | 0.7997             |
| 0.3600         | 0.8205             | 0.3700           | 0.8693             |
| 0.4100         | 0.8663             | 0.4200           | 0.9265             |
| 0.5100         | 0.9455             | 0.5300           | 0.9947             |
| 0.7200         | 0.9991             | 0.7300           | 1.0019             |
| 0.9100         | 0.9994             | 0.9400           | 1.0018             |
| 1.1100         | 1.0003             | 1.1500           | 0.9978             |
| 1.3000         | 1.0001             | 1.3500           | 0.9965             |
| 1.5300         | 1.0000             | 1.5500           | 1.0003             |
| 1.7400         | 1.0013             | 1.7500           | 1.0014             |
| 1.9400         | 0.9988             | 1.9500           | 1.0026             |
| 2.1400         | 0.9996             | 2.1600           | 0.9998             |
| 2.3500         | 1.0001             | 2.3700           | 1.0021             |
| 2.5500         | 1.0013             | 2.5800           | 1.0011             |

Flight 23 Test point 19

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 380.1 Rnpu = 3195000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7154                     | 0.2229                      | 0.0928                  | 0.2 x/c          |
| Outboard station rake | 0.6858                     | 0.1986                      | 0.0798                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.2353 | 0.0400           | 0.7483 |
| 0.0500         | 0.2557 | 0.0700           | 0.6568 |
| 0.1100         | 0.4676 | 0.1200           | 0.3847 |
| 0.1700         | 0.5784 | 0.1800           | 0.3104 |
| 0.2200         | 0.6338 | 0.2100           | 0.5163 |
| 0.2700         | 0.6880 | 0.2700           | 0.6539 |
| 0.3200         | 0.7388 | 0.3100           | 0.7458 |
| 0.3600         | 0.7872 | 0.3700           | 0.8279 |
| 0.4100         | 0.8326 | 0.4200           | 0.8970 |
| 0.5100         | 0.9195 | 0.5300           | 0.9896 |
| 0.7200         | 1.0016 | 0.7300           | 1.0025 |
| 0.9100         | 1.0026 | 0.9400           | 1.0031 |
| 1.1100         | 1.0024 | 1.1500           | 0.9994 |
| 1.3000         | 1.0019 | 1.3500           | 0.9963 |
| 1.5300         | 0.9999 | 1.5500           | 1.0003 |
| 1.7400         | 1.0001 | 1.7500           | 1.0007 |
| 1.9400         | 0.9976 | 1.9500           | 1.0010 |
| 2.1400         | 0.9965 | 2.1600           | 0.9986 |
| 2.3500         | 0.9988 | 2.3700           | 0.9996 |
| 2.5500         | 0.9986 | 2.5800           | 0.9984 |



Flight 23 Test point 20

Sweep, deg = 30.1 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 440.5 Rnpu = 3465000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9207                     | 0.2293                      | 0.1066                  | 0.2 x/c          |
| Outboard station rake | 0.7218                     | 0.1917                      | 0.0854                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4402             | 0.0400           | 0.4267             |
| 0.0500         | 0.4748             | 0.0700           | 0.4817             |
| 0.1100         | 0.5207             | 0.1200           | 0.5521             |
| 0.1700         | 0.5729             | 0.1800           | 0.6096             |
| 0.2200         | 0.6092             | 0.2100           | 0.6575             |
| 0.2700         | 0.6573             | 0.2700           | 0.7194             |
| 0.3200         | 0.7014             | 0.3100           | 0.7712             |
| 0.3600         | 0.7463             | 0.3700           | 0.8278             |
| 0.4100         | 0.7939             | 0.4200           | 0.8797             |
| 0.5100         | 0.8794             | 0.5300           | 0.9676             |
| 0.7200         | 0.9914             | 0.7300           | 1.0012             |
| 0.9100         | 0.9996             | 0.9400           | 1.0017             |
| 1.1100         | 1.0003             | 1.1500           | 0.9980             |
| 1.3000         | 1.0000             | 1.3500           | 0.9968             |
| 1.5300         | 1.0009             | 1.5500           | 1.0009             |
| 1.7400         | 1.0014             | 1.7500           | 1.0009             |
| 1.9400         | 1.0003             | 1.9500           | 1.0009             |
| 2.1400         | 0.9987             | 2.1600           | 0.9991             |
| 2.3500         | 1.0000             | 2.3700           | 1.0001             |
| 2.5500         | 0.9989             | 2.5800           | 1.0003             |

Flight 23 Test point 21

Sweep, deg = 30.2 Mach = 0.80 hp, ft = 19700. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 440.1 Rrho = 3472000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9355                     | 0.2174                      | 0.1039                  | 0.2 x/c          |
| Outboard station rake | 0.7216                     | 0.1800                      | 0.0820                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.4606 | 0.0400           | 0.4527 |
| 0.0500         | 0.4983 | 0.0700           | 0.5102 |
| 0.1100         | 0.5479 | 0.1200           | 0.5806 |
| 0.1700         | 0.6020 | 0.1800           | 0.6385 |
| 0.2200         | 0.6394 | 0.2100           | 0.6852 |
| 0.2700         | 0.6821 | 0.2700           | 0.7408 |
| 0.3200         | 0.7217 | 0.3100           | 0.7940 |
| 0.3600         | 0.7651 | 0.3700           | 0.8465 |
| 0.4100         | 0.8049 | 0.4200           | 0.8925 |
| 0.5100         | 0.8867 | 0.5300           | 0.9717 |
| 0.7200         | 0.9921 | 0.7300           | 1.0011 |
| 0.9100         | 0.9992 | 0.9400           | 1.0024 |
| 1.1100         | 1.0004 | 1.1500           | 0.9989 |
| 1.3000         | 0.9997 | 1.3500           | 0.9961 |
| 1.5300         | 1.0015 | 1.5500           | 0.9984 |
| 1.7400         | 1.0003 | 1.7500           | 0.9988 |
| 1.9400         | 0.9996 | 1.9500           | 1.0011 |
| 2.1400         | 0.9990 | 2.1600           | 1.0006 |
| 2.3500         | 1.0008 | 2.3700           | 1.0022 |
| 2.5500         | 0.9996 | 2.5800           | 1.0006 |

Flight 23 Test point 22

Sweep, deg = 30.1 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 436.5 Rrho = 3445000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9086                     | 0.2663                      | 0.1135                  | 0.2 x/c          |
| Outboard station rake | 0.7226                     | 0.2635                      | 0.0966                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3663             | 0.0400           | 0.2241             |
| 0.0500         | 0.3965             | 0.0700           | 0.2919             |
| 0.1100         | 0.4381             | 0.1200           | 0.3734             |
| 0.1700         | 0.4931             | 0.1800           | 0.4519             |
| 0.2200         | 0.5375             | 0.2100           | 0.5053             |
| 0.2700         | 0.5899             | 0.2700           | 0.5838             |
| 0.3200         | 0.6427             | 0.3100           | 0.6494             |
| 0.3600         | 0.6989             | 0.3700           | 0.7252             |
| 0.4100         | 0.7512             | 0.4200           | 0.7996             |
| 0.5100         | 0.8489             | 0.5300           | 0.9292             |
| 0.7200         | 0.9853             | 0.7300           | 1.0024             |
| 0.9100         | 1.0001             | 0.9400           | 1.0027             |
| 1.1100         | 1.0006             | 1.1500           | 0.9995             |
| 1.3000         | 0.9997             | 1.3500           | 0.9988             |
| 1.5300         | 1.0006             | 1.5500           | 1.0008             |
| 1.7400         | 1.0009             | 1.7500           | 1.0028             |
| 1.9400         | 0.9996             | 1.9500           | 1.0012             |
| 2.1400         | 0.9984             | 2.1600           | 0.9974             |
| 2.3500         | 1.0003             | 2.3700           | 0.9962             |
| 2.5500         | 0.9999             | 2.5800           | 0.9991             |

Flight 23 Test point 23

Sweep, deg = 35.5 Mach = .81 hp, ft = 20000. Angle of attack, deg = .4  
 Angle of sideslip, deg = -.1 QBAR, lb/ft<sup>2</sup> = 442.0 Rrho = 3472000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | .9242                      | .2038                       | .1017                   | 0.2x             |
| Outboard station rake | .7224                      | .1677                       | .0798                   | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| .0300          | .5099              | .0400            | .5272              |
| .0500          | .5364              | .0700            | .5569              |
| .1100          | .5900              | .1200            | .6155              |
| .1700          | .6365              | .1800            | .6679              |
| .2200          | .6725              | .2100            | .7116              |
| .2700          | .7131              | .2700            | .7649              |
| .3200          | .7500              | .3100            | .8126              |
| .3600          | .7873              | .3700            | .8585              |
| .4100          | .8244              | .4200            | .8990              |
| .5100          | .8900              | .5300            | .9684              |
| .7200          | .9854              | .7300            | 1.0011             |
| .9100          | .9991              | .9400            | 1.0017             |
| 1.1100         | 1.0008             | 1.1500           | .9982              |
| 1.3000         | .9991              | 1.3500           | .9969              |
| 1.5300         | 1.0000             | 1.5500           | 1.0001             |
| 1.7400         | 1.0012             | 1.7500           | .9997              |
| 1.9400         | .9998              | 1.9500           | 1.0012             |
| 2.1400         | .9987              | 2.1600           | 1.0004             |
| 2.3500         | 1.0010             | 2.3700           | 1.0005             |
| 2.5500         | 1.0004             | 2.5800           | 1.0002             |

Flight 23 Test point 24

Sweep, deg = 35.6 Mach = .80 hp, ft = 19900. Angle of attack, deg = .1  
 Angle of side-slip, deg = -.1 QBAR, lb/ft<sup>2</sup> = 438.2 Rrho = 3458000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | .7455                      | .1924                       | .0965                   | 0.2x             |
| Outboard station rake | .5784                      | .1561                       | .0740                   | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| .0300          | .5231              | .0400            | .5444              |
| .0500          | .5524              | .0700            | .5770              |
| .1100          | .6003              | .1200            | .6344              |
| .1700          | .6504              | .1800            | .6896              |
| .2200          | .6880              | .2100            | .7320              |
| .2700          | .7307              | .2700            | .7835              |
| .3200          | .7636              | .3100            | .8277              |
| .3600          | .8013              | .3700            | .8730              |
| .4100          | .8361              | .4200            | .9127              |
| .5100          | .9027              | .5300            | .9754              |
| .7200          | .9907              | .7300            | 1.0030             |
| .9100          | .9996              | .9400            | 1.0041             |
| 1.1100         | 1.0009             | 1.1500           | 1.0018             |
| 1.3000         | 1.0002             | 1.3500           | .9986              |
| 1.5300         | 1.0020             | 1.5500           | 1.0029             |
| 1.7400         | 1.0015             | 1.7500           | 1.0017             |
| 1.9400         | 1.0006             | 1.9500           | 1.0032             |
| 2.1400         | 1.0007             | 2.1600           | 1.0025             |
| 2.3500         | 1.0021             | 2.3700           | 1.0036             |
| 2.5500         | 1.0017             | 2.5800           | 1.0032             |

Flight 23 Test point 25

Sweep, deg = 35.6 Mach = .80 hp, ft = 20000. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -.2 QBAR, lb/ft<sup>2</sup> = 439.8 Rnpu = 3461000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | .9278                      | .2115                       | .1049                   | 0.2x             |
| Outboard station rake | .7270                      | .1740                       | .0828                   | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| .0300          | .5046              | .0400            | .5212              |
| .0500          | .5300              | .0700            | .5519              |
| .1100          | .5790              | .1200            | .6089              |
| .1700          | .6253              | .1800            | .6595              |
| .2200          | .6630              | .2100            | .7014              |
| .2700          | .7019              | .2700            | .7550              |
| .3200          | .7371              | .3100            | .8011              |
| .3600          | .7738              | .3700            | .8470              |
| .4100          | .8134              | .4200            | .8895              |
| .5100          | .8796              | .5300            | .9605              |
| .7200          | .9830              | .7300            | 1.0005             |
| .9100          | .9987              | .9400            | 1.0010             |
| 1.1100         | 1.0003             | 1.1500           | .9986              |
| 1.3000         | .9997              | 1.3500           | .9971              |
| 1.5300         | 1.0005             | 1.5500           | 1.0004             |
| 1.7400         | 1.0010             | 1.7500           | 1.0001             |
| 1.9400         | .9995              | 1.9500           | 1.0014             |
| 2.1400         | .9989              | 2.1600           | 1.0000             |
| 2.3500         | 1.0010             | 2.3700           | 1.0005             |
| 2.5500         | 1.0003             | 2.5800           | 1.0005             |

Flight 23 Test point 26

Sweep, deg = 34.9 Mach = .83 hp, ft = 20000. Angle of attack, deg = .2  
 Angle of sideslip, deg = -.1 QBAR, lb/ft<sup>2</sup> = 464.8 Rrho = 3569000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | .9085                         | .2374                          | .1090                      | 0.2x                |
| Outboard station rake | .7240                         | .1863                          | .0854                      | none                |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| .0300          | .4444              | .0400            | .4804              |
| .0500          | .4578              | .0700            | .5148              |
| .1100          | .5064              | .1200            | .5716              |
| .1700          | .5579              | .1800            | .6256              |
| .2200          | .5957              | .2100            | .6713              |
| .2700          | .6438              | .2700            | .7276              |
| .3200          | .6894              | .3100            | .7777              |
| .3600          | .7358              | .3700            | .8308              |
| .4100          | .7830              | .4200            | .8801              |
| .5100          | .8709              | .5300            | .9638              |
| .7200          | .9883              | .7300            | 1.0010             |
| .9100          | 1.0001             | .9400            | 1.0018             |
| 1.1100         | 1.0008             | 1.1500           | .9987              |
| 1.3000         | 1.0001             | 1.3500           | .9979              |
| 1.5300         | 1.0006             | 1.5500           | 1.0000             |
| 1.7400         | 1.0004             | 1.7500           | 1.0002             |
| 1.9400         | .9998              | 1.9500           | 1.0007             |
| 2.1400         | .9984              | 2.1600           | .9995              |
| 2.3500         | .9998              | 2.3700           | 1.0007             |
| 2.5500         | 1.0000             | 2.5800           | .9996              |

Flight 23 Test point 27

Sweep, deg = 30.0 Mach = .83 hp, ft = 20000. Angle of attack, deg = -.1  
 Angle of sideslip, deg = -.1 QBAR, lb/ft<sup>2</sup> = 466.2 Rrho = 3593000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | .7323                      | .2341                       | .0920                   | 0.2x             |
| Outboard station rake | .7195                      | .2231                       | .0747                   | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| .0300          | .2404              | .0400            | .1528              |
| .0500          | .3303              | .0700            | .2321              |
| .1100          | .4554              | .1200            | .4366              |
| .1700          | .5608              | .1800            | .5529              |
| .2200          | .6243              | .2100            | .6316              |
| .2700          | .6865              | .2700            | .7151              |
| .3200          | .7432              | .3100            | .7837              |
| .3600          | .7930              | .3700            | .8462              |
| .4100          | .8378              | .4200            | .8957              |
| .5100          | .9118              | .5300            | .9700              |
| .7200          | .9957              | .7300            | 1.0014             |
| .9100          | .9996              | .9400            | 1.0016             |
| 1.1100         | 1.0013             | 1.1500           | .9999              |
| 1.3000         | 1.0006             | 1.3500           | .9985              |
| 1.5300         | 1.0011             | 1.5500           | 1.0013             |
| 1.7400         | 1.0010             | 1.7500           | 1.0008             |
| 1.9400         | 1.0003             | 1.9500           | 1.0016             |
| 2.1400         | 1.0003             | 2.1600           | 1.0001             |
| 2.3500         | 1.0004             | 2.3700           | .9979              |
| 2.5500         | .9991              | 2.5800           | .9969              |



Flight 23 Test point 28

Sweep, deg = 25.1 Mach = .80 hp, ft = 34900. Angle of attack, deg = .3  
 Angle of sideslip, deg = -.4 QBAR, lb/ft<sup>2</sup> = 222.7 Rrho = 1978000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | .7228                      | .3113                       | .1000                   | 0.2x             |
| Outboard station rake | .4292                      | .1855                       | .0582                   | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| .0300          | .1154  | .0400            | .5556  |
| .0500          | .1733  | .0700            | .5051  |
| .1100          | .2551  | .1200            | .1929  |
| .1700          | .3581  | .1800            | .4212  |
| .2200          | .4154  | .2100            | .5974  |
| .2700          | .4936  | .2700            | .7523  |
| .3200          | .5596  | .3100            | .8726  |
| .3600          | .6475  | .3700            | .9567  |
| .4100          | .7214  | .4200            | .9936  |
| .5100          | .8619  | .5300            | 1.0049 |
| .7200          | .9983  | .7300            | 1.0048 |
| .9100          | .9983  | .9400            | 1.0054 |
| 1.1100         | 1.0007 | 1.1500           | .9989  |
| 1.3000         | .9998  | 1.3500           | .9961  |
| 1.5300         | 1.0008 | 1.5500           | .9998  |
| 1.7400         | 1.0018 | 1.7500           | .9983  |
| 1.9400         | 1.0019 | 1.9500           | .9985  |
| 2.1400         | .9996  | 2.1600           | .9993  |
| 2.3500         | .9997  | 2.3700           | 1.0007 |
| 2.5500         | .9992  | 2.5800           | .9998  |

Flight 23 Test point 29

Sweep, deg = 25.1 Mach = 0.81 hp, ft = 34500. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 231.3 Rrho = 2036000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7143                     | 0.3004                      | 0.0874                  | 0.2 x/c          |
| Outboard station rake | 0.4140                     | 0.1705                      | 0.0527                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2997             | 0.0400           | 0.4149             |
| 0.0500         | 0.2677             | 0.0700           | 0.2787             |
| 0.1100         | 0.1105             | 0.1200           | 0.3952             |
| 0.1700         | 0.3212             | 0.1800           | 0.6030             |
| 0.2200         | 0.4308             | 0.2100           | 0.7286             |
| 0.2700         | 0.5396             | 0.2700           | 0.8416             |
| 0.3200         | 0.6256             | 0.3100           | 0.9153             |
| 0.3600         | 0.7079             | 0.3700           | 0.9662             |
| 0.4100         | 0.7878             | 0.4200           | 0.9917             |
| 0.5100         | 0.9010             | 0.5300           | 1.0050             |
| 0.7200         | 1.0025             | 0.7300           | 1.0077             |
| 0.9100         | 1.0022             | 0.9400           | 1.0086             |
| 1.1100         | 1.0031             | 1.1500           | 1.0045             |
| 1.3000         | 1.0039             | 1.3500           | 1.0010             |
| 1.5300         | 1.0052             | 1.5500           | 1.0054             |
| 1.7400         | 1.0043             | 1.7500           | 0.9990             |
| 1.9400         | 1.0034             | 1.9500           | 0.9965             |
| 2.1400         | 0.9998             | 2.1600           | 0.9934             |
| 2.3500         | 0.9874             | 2.3700           | 0.9935             |
| 2.5500         | 0.9882             | 2.5800           | 0.9937             |

Flight 23 Test point 30

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 35100. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 223.4 Rrho = 1978000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7200                     | 0.3064                      | 0.0948                  | 0.2 x/c          |
| Outboard station rake | 0.4642                     | 0.1942                      | 0.0596                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4627             | 0.0400           | 0.3618             |
| 0.0500         | 0.4369             | 0.0700           | 0.2471             |
| 0.1100         | 0.2935             | 0.1200           | 0.3637             |
| 0.1700         | 0.1683             | 0.1800           | 0.5367             |
| 0.2200         | 0.3472             | 0.2100           | 0.6553             |
| 0.2700         | 0.4752             | 0.2700           | 0.7721             |
| 0.3200         | 0.5821             | 0.3100           | 0.8616             |
| 0.3600         | 0.6729             | 0.3700           | 0.9261             |
| 0.4100         | 0.7562             | 0.4200           | 0.9667             |
| 0.5100         | 0.8825             | 0.5300           | 1.0005             |
| 0.7200         | 1.0000             | 0.7300           | 1.0062             |
| 0.9100         | 1.0007             | 0.9400           | 1.0069             |
| 1.1100         | 1.0024             | 1.1500           | 1.0034             |
| 1.3000         | 1.0038             | 1.3500           | 1.0007             |
| 1.5300         | 1.0024             | 1.5500           | 1.0044             |
| 1.7400         | 1.0050             | 1.7500           | 1.0032             |
| 1.9400         | 1.0030             | 1.9500           | 1.0041             |
| 2.1400         | 1.0012             | 2.1600           | 1.0020             |
| 2.3500         | 0.9930             | 2.3700           | 1.0016             |
| 2.5500         | 0.9886             | 2.5800           | 1.0003             |

Flight 23 Test point 31

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 224.3 Rrho = 1987000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 1.1397                     | 0.6265                      | 0.1347                  | 0.2 x/c          |
| Outboard station rake | 0.4601                     | 0.2101                      | 0.0596                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.1758 | 0.0400           | 0.4315 |
| 0.0500         | 0.1577 | 0.0700           | 0.3797 |
| 0.1100         | 0.1731 | 0.1200           | 0.1990 |
| 0.1700         | 0.1930 | 0.1800           | 0.4375 |
| 0.2200         | 0.2180 | 0.2100           | 0.5828 |
| 0.2700         | 0.2044 | 0.2700           | 0.7298 |
| 0.3200         | 0.2219 | 0.3100           | 0.8362 |
| 0.3600         | 0.1370 | 0.3700           | 0.9175 |
| 0.4100         | 0.0679 | 0.4200           | 0.9646 |
| 0.5100         | 0.2943 | 0.5300           | 1.0020 |
| 0.7200         | 0.6591 | 0.7300           | 1.0074 |
| 0.9100         | 0.9033 | 0.9400           | 1.0092 |
| 1.1100         | 0.9881 | 1.1500           | 1.0037 |
| 1.3000         | 0.9994 | 1.3500           | 1.0019 |
| 1.5300         | 1.0014 | 1.5500           | 1.0054 |
| 1.7400         | 1.0027 | 1.7500           | 1.0038 |
| 1.9400         | 1.0035 | 1.9500           | 1.0042 |
| 2.1400         | 1.0020 | 2.1600           | 1.0002 |
| 2.3500         | 1.0013 | 2.3700           | 0.9989 |
| 2.5500         | 1.0016 | 2.5800           | 0.9987 |

Flight 23 Test point 32

Sweep, deg = 20.0 Mach = 0.76 hp, ft = 34800. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 200.8 Rnpu = 1870000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7289                     | 0.2266                      | 0.0883                  | 0.2 x/c          |
| Outboard station rake | 0.3911                     | 0.1175                      | 0.0409                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3436             | 0.0400           | 0.1643             |
| 0.0500         | 0.0840             | 0.0700           | 0.4824             |
| 0.1100         | 0.4276             | 0.1200           | 0.6951             |
| 0.1700         | 0.5686             | 0.1800           | 0.8119             |
| 0.2200         | 0.6356             | 0.2100           | 0.8638             |
| 0.2700         | 0.6936             | 0.2700           | 0.9290             |
| 0.3200         | 0.7422             | 0.3100           | 0.9658             |
| 0.3600         | 0.7988             | 0.3700           | 0.9830             |
| 0.4100         | 0.8446             | 0.4200           | 0.9980             |
| 0.5100         | 0.9262             | 0.5300           | 1.0022             |
| 0.7200         | 0.9974             | 0.7300           | 1.0007             |
| 0.9100         | 0.9977             | 0.9400           | 1.0055             |
| 1.1100         | 1.0008             | 1.1500           | 0.9980             |
| 1.3000         | 1.0005             | 1.3500           | 0.9934             |
| 1.5300         | 0.9994             | 1.5500           | 1.0019             |
| 1.7400         | 1.0020             | 1.7500           | 1.0028             |
| 1.9400         | 0.9993             | 1.9500           | 1.0036             |
| 2.1400         | 1.0002             | 2.1600           | 1.0031             |
| 2.3500         | 1.0012             | 2.3700           | 1.0035             |
| 2.5500         | 1.0014             | 2.5800           | 1.0043             |

Flight 23 Test point 33

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 34100. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 204.9 Rrho = 1910000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7242                     | 0.2251                      | 0.0923                  | 0.2 x/c          |
| Outboard station rake | 0.4339                     | 0.1261                      | 0.0484                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3255             | 0.0400           | 0.2845             |
| 0.0500         | 0.1818             | 0.0700           | 0.4216             |
| 0.1100         | 0.4433             | 0.1200           | 0.6644             |
| 0.1700         | 0.5717             | 0.1800           | 0.7779             |
| 0.2200         | 0.6337             | 0.2100           | 0.8367             |
| 0.2700         | 0.6920             | 0.2700           | 0.9001             |
| 0.3200         | 0.7449             | 0.3100           | 0.9442             |
| 0.3600         | 0.7929             | 0.3700           | 0.9672             |
| 0.4100         | 0.8360             | 0.4200           | 0.9867             |
| 0.5100         | 0.9170             | 0.5300           | 1.0010             |
| 0.7200         | 0.9985             | 0.7300           | 1.0023             |
| 0.9100         | 0.9981             | 0.9400           | 1.0053             |
| 1.1100         | 1.0009             | 1.1300           | 0.9968             |
| 1.3000         | 1.0009             | 1.3500           | 0.9930             |
| 1.5300         | 1.0008             | 1.5500           | 1.0024             |
| 1.7400         | 1.0016             | 1.7500           | 1.0020             |
| 1.9400         | 1.0006             | 1.9500           | 1.0035             |
| 2.1400         | 0.9981             | 2.1600           | 1.0014             |
| 2.3500         | 0.9997             | 2.3700           | 1.0022             |
| 2.5500         | 1.0007             | 2.5800           | 1.0035             |

Flight 23 Test point 34

Sweep, deg = 25.1 Mach = 0.75 hp, ft = 35800. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 189.2 R<sub>npu</sub> = 1775000.

|                       | Boundary layer height, In. | Displacement thickness, In. | Momentum thickness, In. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7238                     | 0.1808                      | 0.0854                  | 0.2 x/c          |
| Outboard station rake | 0.3714                     | 0.1268                      | 0.0449                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, In.         | U/U <sub>max</sub> | Y, In.           | U/U <sub>max</sub> |
| 0.0300         | 0.3782             | 0.0400           | 0.1757             |
| 0.0500         | 0.4650             | 0.0700           | 0.4561             |
| 0.1100         | 0.5673             | 0.1200           | 0.6477             |
| 0.1700         | 0.6465             | 0.1800           | 0.7594             |
| 0.2200         | 0.6933             | 0.2100           | 0.8225             |
| 0.2700         | 0.7479             | 0.2700           | 0.9045             |
| 0.3200         | 0.7873             | 0.3100           | 0.9614             |
| 0.3600         | 0.8403             | 0.3700           | 0.9887             |
| 0.4100         | 0.8796             | 0.4200           | 0.9971             |
| 0.5100         | 0.9513             | 0.5300           | 1.0031             |
| 0.7200         | 0.9993             | 0.7300           | 1.0030             |
| 0.9100         | 0.9958             | 0.9400           | 1.0020             |
| 1.1100         | 0.9983             | 1.1500           | 0.9952             |
| 1.3000         | 1.0023             | 1.3500           | 0.9919             |
| 1.5300         | 1.0033             | 1.5500           | 1.0034             |
| 1.7400         | 0.9996             | 1.7500           | 1.0035             |
| 1.9400         | 1.0009             | 1.9500           | 1.0047             |
| 2.1400         | 0.9992             | 2.1600           | 1.0010             |
| 2.3500         | 1.0006             | 2.3700           | 1.0035             |
| 2.5500         | 1.0008             | 2.5800           | 1.0029             |

Flight 23 Test point 35

Sweep, deg = 25.2 Mach = 0.75 hp, ft = 35500. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 193.2 Rrho = 1813000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7286                     | 0.1939                      | 0.0901                  | 0.2 x/c          |
| Outboard station rake | 0.4079                     | 0.1230                      | 0.0482                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3407             | 0.0400           | 0.2956             |
| 0.0500         | 0.4438             | 0.0700           | 0.5010             |
| 0.1100         | 0.5456             | 0.1200           | 0.6639             |
| 0.1700         | 0.6255             | 0.1800           | 0.7577             |
| 0.2200         | 0.6723             | 0.2100           | 0.8243             |
| 0.2700         | 0.7266             | 0.2700           | 0.8987             |
| 0.3200         | 0.7683             | 0.3100           | 0.9522             |
| 0.3600         | 0.8229             | 0.3700           | 0.9827             |
| 0.4100         | 0.8609             | 0.4200           | 0.9964             |
| 0.5100         | 0.9367             | 0.5300           | 1.0024             |
| 0.7200         | 0.9978             | 0.7300           | 1.0028             |
| 0.9100         | 0.9969             | 0.9400           | 1.0042             |
| 1.1100         | 1.0012             | 1.1500           | 0.9983             |
| 1.3000         | 0.9984             | 1.3500           | 0.9943             |
| 1.5300         | 1.0011             | 1.5500           | 1.0037             |
| 1.7400         | 1.0010             | 1.7500           | 1.0012             |
| 1.9400         | 1.0016             | 1.9500           | 1.0053             |
| 2.1400         | 1.0005             | 2.1600           | 1.0016             |
| 2.3500         | 1.0000             | 2.3700           | 1.0015             |
| 2.5500         | 1.0016             | 2.5800           | 1.0054             |



Flight 23 Test point 36

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 34700. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 174.8 Rrho = 1738000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7320                     | 0.1996                      | 0.0860                  | 0.2 x/c          |
| Outboard station rake | 0.3273                     | 0.1094                      | 0.0350                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2752             | 0.0400           | 0.1088             |
| 0.0500         | 0.2639             | 0.0700           | 0.5088             |
| 0.1100         | 0.4995             | 0.1200           | 0.7213             |
| 0.1700         | 0.6146             | 0.1800           | 0.8309             |
| 0.2200         | 0.6763             | 0.2100           | 0.8965             |
| 0.2700         | 0.7361             | 0.2700           | 0.9552             |
| 0.3200         | 0.7856             | 0.3100           | 0.9871             |
| 0.3600         | 0.8301             | 0.3700           | 0.9971             |
| 0.4100         | 0.8723             | 0.4200           | 0.9994             |
| 0.5100         | 0.9429             | 0.5300           | 1.0020             |
| 0.7200         | 0.9973             | 0.7300           | 1.0043             |
| 0.9100         | 0.9968             | 0.9400           | 1.0034             |
| 1.1100         | 1.0007             | 1.1500           | 0.9962             |
| 1.3000         | 0.9999             | 1.3500           | 0.9929             |
| 1.5300         | 1.0036             | 1.5500           | 1.0022             |
| 1.7400         | 1.0024             | 1.7500           | 1.0027             |
| 1.9400         | 1.0017             | 1.9500           | 1.0038             |
| 2.1400         | 0.9975             | 2.1600           | 1.0022             |
| 2.3500         | 0.9990             | 2.3700           | 1.0034             |
| 2.5500         | 1.0011             | 2.5800           | 1.0029             |

Flight 23 Test point 37

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 34800. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 171.8 Rrho = 1715000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7256                     | 0.2074                      | 0.0876                  | 0.2 x/c          |
| Outboard station rake | 0.3729                     | 0.1219                      | 0.0456                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3031             | 0.0400           | 0.3745             |
| 0.0500         | 0.2076             | 0.0700           | 0.3436             |
| 0.1100         | 0.4807             | 0.1200           | 0.6396             |
| 0.1700         | 0.5996             | 0.1800           | 0.7729             |
| 0.2200         | 0.6646             | 0.2100           | 0.8421             |
| 0.2700         | 0.7190             | 0.2700           | 0.9174             |
| 0.3200         | 0.7708             | 0.3100           | 0.9662             |
| 0.3600         | 0.8227             | 0.3700           | 0.9894             |
| 0.4100         | 0.8642             | 0.4200           | 0.9974             |
| 0.5100         | 0.9353             | 0.5300           | 1.0012             |
| 0.7200         | 0.9985             | 0.7300           | 1.0009             |
| 0.9100         | 0.9961             | 0.9400           | 1.0056             |
| 1.1100         | 1.0030             | 1.1500           | 0.9966             |
| 1.3000         | 1.0004             | 1.3500           | 0.9928             |
| 1.5300         | 1.0011             | 1.5500           | 1.0028             |
| 1.7400         | 1.0017             | 1.7500           | 1.0026             |
| 1.9400         | 1.0022             | 1.9500           | 1.0046             |
| 2.1400         | 0.9995             | 2.1600           | 1.0019             |
| 2.3500         | 0.9994             | 2.3700           | 1.0006             |
| 2.5500         | 0.9981             | 2.5800           | 1.0037             |

Flight 23 Test point 38

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 34400. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 175.7 R<sub>npu</sub> = 1749000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5693                     | 0.1526                      | 0.0756                  | 0.2 x/c          |
| Outboard station rake | 0.3193                     | 0.0892                      | 0.0381                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4592             | 0.0400           | 0.5097             |
| 0.0500         | 0.5263             | 0.0700           | 0.6241             |
| 0.1100         | 0.6172             | 0.1200           | 0.7516             |
| 0.1700         | 0.6921             | 0.1800           | 0.8422             |
| 0.2200         | 0.7335             | 0.2100           | 0.9027             |
| 0.2700         | 0.7852             | 0.2700           | 0.9599             |
| 0.3200         | 0.8239             | 0.3100           | 0.9932             |
| 0.3600         | 0.8728             | 0.3700           | 0.9986             |
| 0.4100         | 0.9088             | 0.4200           | 1.0000             |
| 0.5100         | 0.9684             | 0.5300           | 1.0024             |
| 0.7200         | 1.0005             | 0.7300           | 1.0029             |
| 0.9100         | 1.0007             | 0.9400           | 1.0053             |
| 1.1100         | 1.0054             | 1.1500           | 0.9973             |
| 1.3000         | 1.0045             | 1.3500           | 0.9900             |
| 1.5300         | 1.0048             | 1.5500           | 0.9992             |
| 1.7400         | 1.0015             | 1.7500           | 1.0006             |
| 1.9400         | 1.0061             | 1.9500           | 1.0039             |
| 2.1400         | 1.0017             | 2.1600           | 1.0019             |
| 2.3500         | 1.0031             | 2.3700           | 0.9986             |
| 2.5500         | 1.0033             | 2.5800           | 1.0060             |

Flight 23 Test point 39

Sweep, deg = 25.1 Mach = 0.70 hp, ft = 33900. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 178.0 Rrho = 1772000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7369                     | 0.1614                      | 0.0812                  | 0.2 x/c          |
| Outboard station rake | 0.3452                     | 0.1048                      | 0.0444                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.4529 | 0.0400           | 0.4279 |
| 0.0500         | 0.5229 | 0.0700           | 0.5720 |
| 0.1100         | 0.6047 | 0.1200           | 0.7024 |
| 0.1700         | 0.6823 | 0.1800           | 0.7933 |
| 0.2200         | 0.7242 | 0.2100           | 0.8573 |
| 0.2700         | 0.7749 | 0.2700           | 0.9248 |
| 0.3200         | 0.8179 | 0.3100           | 0.9681 |
| 0.3600         | 0.8609 | 0.3700           | 0.9925 |
| 0.4100         | 0.8963 | 0.4200           | 0.9983 |
| 0.5100         | 0.9608 | 0.5300           | 1.0035 |
| 0.7200         | 0.9975 | 0.7300           | 1.0030 |
| 0.9100         | 0.9975 | 0.9400           | 1.0034 |
| 1.1100         | 0.9998 | 1.1500           | 0.9953 |
| 1.3000         | 1.0018 | 1.3500           | 0.9879 |
| 1.5300         | 1.0020 | 1.5500           | 1.0021 |
| 1.7400         | 1.0020 | 1.7500           | 1.0028 |
| 1.9400         | 1.0004 | 1.9500           | 1.0045 |
| 2.1400         | 0.9977 | 2.1600           | 1.0022 |
| 2.3500         | 1.0013 | 2.3700           | 1.0030 |
| 2.5500         | 1.0001 | 2.5800           | 1.0015 |

Flight 23 Test point 40

Sweep, deg = 30.4 Mach = 0.71 hp, ft = 34900. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 175.2 Rrho = 1733000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5629                     | 0.1399                      | 0.0723                  | 0.2 x/c          |
| Outboard station rake | 0.4921                     | 0.1281                      | 0.0621                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5586             | 0.0400           | 0.5605             |
| 0.0500         | 0.5895             | 0.0700           | 0.6088             |
| 0.1100         | 0.6516             | 0.1200           | 0.6807             |
| 0.1700         | 0.7086             | 0.1800           | 0.7412             |
| 0.2200         | 0.7531             | 0.2100           | 0.7720             |
| 0.2700         | 0.8048             | 0.2700           | 0.8324             |
| 0.3200         | 0.8396             | 0.3100           | 0.8814             |
| 0.3600         | 0.8818             | 0.3700           | 0.9161             |
| 0.4100         | 0.9149             | 0.4200           | 0.9525             |
| 0.5100         | 0.9727             | 0.5300           | 1.0021             |
| 0.7200         | 0.9988             | 0.7300           | 1.0054             |
| 0.9100         | 1.0013             | 0.9400           | 1.0091             |
| 1.1100         | 1.0030             | 1.1500           | 1.0007             |
| 1.3000         | 1.0033             | 1.3500           | 0.9933             |
| 1.5300         | 1.0061             | 1.5500           | 1.0058             |
| 1.7400         | 1.0035             | 1.7500           | 1.0045             |
| 1.9400         | 1.0051             | 1.9500           | 1.0089             |
| 2.1400         | 1.0021             | 2.1600           | 1.0046             |
| 2.3500         | 1.0021             | 2.3700           | 1.0070             |
| 2.5500         | 1.0020             | 2.5800           | 1.0062             |

Flight 23 Test point 41

Sweep, deg = 30.4 Mach = 0.70 hp, ft = 34000. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 178.4 Rnpu = 1772000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5583                     | 0.1374                      | 0.0713                  | 0.2 x/c          |
| Outboard station rake | 0.5047                     | 0.1292                      | 0.0633                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5603             | 0.0400           | 0.5641             |
| 0.0500         | 0.5853             | 0.0700           | 0.6098             |
| 0.1100         | 0.6525             | 0.1200           | 0.6847             |
| 0.1700         | 0.7132             | 0.1800           | 0.7372             |
| 0.2200         | 0.7600             | 0.2100           | 0.7696             |
| 0.2700         | 0.8033             | 0.2700           | 0.8265             |
| 0.3200         | 0.8419             | 0.3100           | 0.8765             |
| 0.3600         | 0.8890             | 0.3700           | 0.9128             |
| 0.4100         | 0.9209             | 0.4200           | 0.9475             |
| 0.5100         | 0.9761             | 0.5300           | 0.9939             |
| 0.7200         | 0.9995             | 0.7300           | 1.0012             |
| 0.9100         | 0.9982             | 0.9400           | 1.0041             |
| 1.1100         | 1.0016             | 1.1500           | 0.9940             |
| 1.3000         | 1.0017             | 1.3500           | 0.9906             |
| 1.5300         | 1.0046             | 1.5500           | 1.0024             |
| 1.7400         | 1.0046             | 1.7500           | 1.0019             |
| 1.9400         | 1.0023             | 1.9500           | 1.0032             |
| 2.1400         | 1.0016             | 2.1600           | 0.9997             |
| 2.3500         | 1.0036             | 2.3700           | 1.0033             |
| 2.5500         | 1.0062             | 2.5800           | 1.0055             |

Flight 23 Test point 42

Sweep, deg = 30.4 Mach = 0.70 hp, ft = 34200. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 177.1 R<sub>npu</sub> = 1761000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5752                     | 0.1435                      | 0.0740                  | 0.2 x/c          |
| Outboard station rake | 0.4850                     | 0.1300                      | 0.0627                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5527             | 0.0400           | 0.5476             |
| 0.0500         | 0.5893             | 0.0700           | 0.6050             |
| 0.1100         | 0.6422             | 0.1200           | 0.6721             |
| 0.1700         | 0.7027             | 0.1800           | 0.7301             |
| 0.2200         | 0.7451             | 0.2100           | 0.7678             |
| 0.2700         | 0.7920             | 0.2700           | 0.8249             |
| 0.3200         | 0.8348             | 0.3100           | 0.8791             |
| 0.3600         | 0.8815             | 0.3700           | 0.9152             |
| 0.4100         | 0.9113             | 0.4200           | 0.9539             |
| 0.5100         | 0.9675             | 0.5300           | 1.0016             |
| 0.7200         | 1.0017             | 0.7300           | 1.0082             |
| 0.9100         | 1.0008             | 0.9400           | 1.0070             |
| 1.1100         | 1.0034             | 1.1500           | 1.0021             |
| 1.3000         | 1.0041             | 1.3500           | 0.9940             |
| 1.5300         | 1.0026             | 1.5500           | 1.0083             |
| 1.7400         | 1.0054             | 1.7500           | 1.0050             |
| 1.9400         | 1.0025             | 1.9500           | 1.0064             |
| 2.1400         | 1.0036             | 2.1600           | 1.0043             |
| 2.3500         | 1.0045             | 2.3700           | 1.0033             |
| 2.5500         | 1.0039             | 2.5800           | 1.0057             |

Flight 23 Test point 43

Sweep, deg = 34.8 Mach = 0.69 hp, ft = 35800. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 161.2 Rrho = 1633000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7472                     | 0.1492                      | 0.0809                  | 0.2 x/c          |
| Outboard station rake | 0.4768                     | 0.1116                      | 0.0550                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5799             | 0.0400           | 0.6038             |
| 0.0500         | 0.5961             | 0.0700           | 0.6354             |
| 0.1100         | 0.6565             | 0.1200           | 0.7137             |
| 0.1700         | 0.7121             | 0.1800           | 0.7672             |
| 0.2200         | 0.7496             | 0.2100           | 0.8028             |
| 0.2700         | 0.7907             | 0.2700           | 0.8698             |
| 0.3200         | 0.8265             | 0.3100           | 0.9105             |
| 0.3600         | 0.8678             | 0.3700           | 0.9475             |
| 0.4100         | 0.8921             | 0.4200           | 0.9723             |
| 0.5100         | 0.9498             | 0.5300           | 1.0055             |
| 0.7200         | 0.9950             | 0.7300           | 1.0044             |
| 0.9100         | 0.9976             | 0.9400           | 1.0069             |
| 1.1100         | 1.0009             | 1.1500           | 0.9922             |
| 1.3000         | 0.9989             | 1.3500           | 0.9918             |
| 1.5300         | 1.0054             | 1.5500           | 1.0034             |
| 1.7400         | 1.0014             | 1.7500           | 1.0040             |
| 1.9400         | 0.9994             | 1.9500           | 1.0059             |
| 2.1400         | 0.9998             | 2.1600           | 1.0017             |
| 2.3500         | 0.9986             | 2.3700           | 1.0044             |
| 2.5500         | 1.0029             | 2.5800           | 1.0074             |



Flight 23 Test point 44

Sweep, deg = 34.7 Mach = 0.70 hp, ft = 35500. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 168.9 Rrho = 1687000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5733                     | 0.1396                      | 0.0725                  | 0.2 x/c          |
| Outboard station rake | 0.5515                     | 0.1302                      | 0.0652                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5609             | 0.0400           | 0.5818             |
| 0.0500         | 0.5880             | 0.0700           | 0.6190             |
| 0.1100         | 0.6529             | 0.1200           | 0.6846             |
| 0.1700         | 0.7158             | 0.1800           | 0.7391             |
| 0.2200         | 0.7556             | 0.2100           | 0.7697             |
| 0.2700         | 0.8016             | 0.2700           | 0.8264             |
| 0.3200         | 0.8407             | 0.3100           | 0.8745             |
| 0.3600         | 0.8822             | 0.3700           | 0.9080             |
| 0.4100         | 0.9164             | 0.4200           | 0.9401             |
| 0.5100         | 0.9700             | 0.5300           | 0.9894             |
| 0.7200         | 1.0012             | 0.7300           | 1.0033             |
| 0.9100         | 0.9984             | 0.9400           | 1.0059             |
| 1.1100         | 1.0047             | 1.1500           | 0.9929             |
| 1.3000         | 1.0002             | 1.3500           | 0.9881             |
| 1.5300         | 1.0078             | 1.5500           | 1.0053             |
| 1.7400         | 1.0046             | 1.7500           | 1.0019             |
| 1.9400         | 1.0047             | 1.9500           | 1.0069             |
| 2.1400         | 1.0021             | 2.1600           | 1.0019             |
| 2.3500         | 1.0040             | 2.3700           | 1.0003             |
| 2.5500         | 1.0023             | 2.5800           | 1.0043             |

Flight 23 Test point 45

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 2.1  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 273.2 Rrho = 2495000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9459                     | 0.1860                      | 0.1004                  | 0.2 x/c          |
| Outboard station rake | 0.6774                     | 0.1540                      | 0.0785                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5474 | 0.0400           | 0.5721 |
| 0.0500         | 0.5747 | 0.0700           | 0.6059 |
| 0.1100         | 0.6316 | 0.1200           | 0.6692 |
| 0.1700         | 0.6784 | 0.1800           | 0.7172 |
| 0.2200         | 0.7076 | 0.2100           | 0.7449 |
| 0.2700         | 0.7464 | 0.2700           | 0.7924 |
| 0.3200         | 0.7751 | 0.3100           | 0.8322 |
| 0.3600         | 0.8076 | 0.3700           | 0.8694 |
| 0.4100         | 0.8384 | 0.4200           | 0.9019 |
| 0.5100         | 0.8928 | 0.5300           | 0.9626 |
| 0.7200         | 0.9783 | 0.7300           | 1.0011 |
| 0.9100         | 0.9969 | 0.9400           | 1.0017 |
| 1.1100         | 1.0001 | 1.1500           | 0.9976 |
| 1.3000         | 1.0013 | 1.3500           | 0.9947 |
| 1.5300         | 1.0007 | 1.5500           | 1.0012 |
| 1.7400         | 1.0016 | 1.7500           | 1.0001 |
| 1.9400         | 1.0012 | 1.9500           | 1.0022 |
| 2.1400         | 0.9975 | 2.1600           | 0.9990 |
| 2.3500         | 1.0017 | 2.3700           | 1.0005 |
| 2.5500         | 0.9990 | 2.5800           | 1.0018 |

Flight 23 Test point 46

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 24700. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 273.3 Rrho = 2504000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7489                     | 0.1648                      | 0.0894                  | 0.2 x/c          |
| Outboard station rake | 0.5674                     | 0.1319                      | 0.0670                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5615             | 0.0400           | 0.5884             |
| 0.0500         | 0.5901             | 0.0700           | 0.6269             |
| 0.1100         | 0.6473             | 0.1200           | 0.6867             |
| 0.1700         | 0.7058             | 0.1800           | 0.7375             |
| 0.2200         | 0.7351             | 0.2100           | 0.7748             |
| 0.2700         | 0.7682             | 0.2700           | 0.8254             |
| 0.3200         | 0.8049             | 0.3100           | 0.8651             |
| 0.3600         | 0.8356             | 0.3700           | 0.8993             |
| 0.4100         | 0.8643             | 0.4200           | 0.9308             |
| 0.5100         | 0.9187             | 0.5300           | 0.9839             |
| 0.7200         | 0.9913             | 0.7300           | 1.0033             |
| 0.9100         | 0.9989             | 0.9400           | 1.0042             |
| 1.1100         | 1.0017             | 1.1500           | 0.9964             |
| 1.3000         | 1.0015             | 1.3500           | 0.9956             |
| 1.5300         | 1.0025             | 1.5500           | 1.0040             |
| 1.7400         | 1.0017             | 1.7500           | 1.0014             |
| 1.9400         | 1.0010             | 1.9500           | 1.0045             |
| 2.1400         | 0.9996             | 2.1600           | 1.0001             |
| 2.3500         | 1.0009             | 2.3700           | 1.0031             |
| 2.5500         | 1.0010             | 2.5800           | 1.0035             |

Flight 23 Test point 47

Sweep, deg = 34.9 Mach = 0.71 hp, ft = 24400. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 280.2 Rrho = 2548000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9181                     | 0.1813                      | 0.0980                  | 0.2 x/c          |
| Outboard station rake | 0.5934                     | 0.1441                      | 0.0727                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5485             | 0.0400           | 0.5744             |
| 0.0500         | 0.5799             | 0.0700           | 0.6133             |
| 0.1100         | 0.6343             | 0.1200           | 0.6732             |
| 0.1700         | 0.6828             | 0.1800           | 0.7194             |
| 0.2200         | 0.7165             | 0.2100           | 0.7555             |
| 0.2700         | 0.7500             | 0.2700           | 0.8032             |
| 0.3200         | 0.7783             | 0.3100           | 0.8438             |
| 0.3600         | 0.8152             | 0.3700           | 0.8773             |
| 0.4100         | 0.8426             | 0.4200           | 0.9117             |
| 0.5100         | 0.8983             | 0.5300           | 0.9702             |
| 0.7200         | 0.9816             | 0.7300           | 1.0036             |
| 0.9100         | 0.9993             | 0.9400           | 1.0059             |
| 1.1100         | 1.0010             | 1.1500           | 1.0000             |
| 1.3000         | 0.9992             | 1.3500           | 0.9957             |
| 1.5300         | 1.0002             | 1.5500           | 1.0045             |
| 1.7400         | 1.0012             | 1.7500           | 1.0030             |
| 1.9400         | 0.9994             | 1.9500           | 1.0040             |
| 2.1400         | 0.9981             | 2.1600           | 1.0037             |
| 2.3500         | 1.0023             | 2.3700           | 1.0047             |
| 2.5500         | 0.9994             | 2.5800           | 1.0046             |

Flight 23 Test point 48

Sweep, deg = 30.0 Mach = 0.71 hp, ft = 24900. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 275.4 Rrho = 2507000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7287                     | 0.1636                      | 0.0862                  | 0.2 x/c          |
| Outboard station rake | 0.7115                     | 0.1525                      | 0.0757                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5396             | 0.0400           | 0.5318             |
| 0.0500         | 0.5770             | 0.0700           | 0.5806             |
| 0.1100         | 0.6351             | 0.1200           | 0.6490             |
| 0.1700         | 0.6925             | 0.1800           | 0.7061             |
| 0.2200         | 0.7293             | 0.2100           | 0.7418             |
| 0.2700         | 0.7701             | 0.2700           | 0.7881             |
| 0.3200         | 0.8087             | 0.3100           | 0.8328             |
| 0.3600         | 0.8422             | 0.3700           | 0.8703             |
| 0.4100         | 0.8735             | 0.4200           | 0.9103             |
| 0.5100         | 0.9335             | 0.5300           | 0.9756             |
| 0.7200         | 0.9977             | 0.7300           | 1.0021             |
| 0.9100         | 0.9994             | 0.9400           | 1.0023             |
| 1.1100         | 1.0009             | 1.1500           | 0.9973             |
| 1.3000         | 1.0009             | 1.3500           | 0.9937             |
| 1.5300         | 1.0010             | 1.5500           | 1.0011             |
| 1.7400         | 1.0003             | 1.7500           | 1.0002             |
| 1.9400         | 0.9998             | 1.9500           | 1.0016             |
| 2.1400         | 0.9987             | 2.1600           | 1.0003             |
| 2.3500         | 1.0014             | 2.3700           | 1.0003             |
| 2.5500         | 1.0001             | 2.5800           | 1.0011             |

Flight 23 Test point 49

Sweep, deg = 29.8 Mach = 0.71 hp, ft = 24500. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 279.1 Rnpu = 2535000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7282                     | 0.1635                      | 0.0869                  | 0.2 x/c          |
| Outboard station rake | 0.5530                     | 0.1345                      | 0.0665                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5458             | 0.0400           | 0.5634             |
| 0.0500         | 0.5815             | 0.0700           | 0.6080             |
| 0.1100         | 0.6432             | 0.1200           | 0.6743             |
| 0.1700         | 0.6950             | 0.1800           | 0.7286             |
| 0.2200         | 0.7311             | 0.2100           | 0.7694             |
| 0.2700         | 0.7697             | 0.2700           | 0.8240             |
| 0.3200         | 0.8034             | 0.3100           | 0.8635             |
| 0.3600         | 0.8408             | 0.3700           | 0.9016             |
| 0.4100         | 0.8715             | 0.4200           | 0.9370             |
| 0.5100         | 0.9296             | 0.5300           | 0.9876             |
| 0.7200         | 0.9977             | 0.7300           | 1.0031             |
| 0.9100         | 0.9991             | 0.9400           | 1.0052             |
| 1.1100         | 1.0009             | 1.1500           | 0.9984             |
| 1.3000         | 0.9992             | 1.3500           | 0.9957             |
| 1.5300         | 1.0015             | 1.5500           | 1.0027             |
| 1.7400         | 0.9993             | 1.7500           | 1.0002             |
| 1.9400         | 1.0005             | 1.9500           | 1.0036             |
| 2.1400         | 0.9992             | 2.1600           | 1.0004             |
| 2.3500         | 1.0028             | 2.3700           | 1.0016             |
| 2.5500         | 0.9998             | 2.5800           | 1.0015             |

Flight 23 Test point 50

Sweep, deg = 29.7 Mach = 0.71 hp, ft = 25200. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 272.3 Rnpu = 2485000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7288                     | 0.1629                      | 0.0858                  | 0.2 x/c          |
| Outboard station rake | 0.5677                     | 0.1483                      | 0.0726                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5422             | 0.0400           | 0.5328             |
| 0.0500         | 0.5753             | 0.0700           | 0.5835             |
| 0.1100         | 0.6323             | 0.1200           | 0.6466             |
| 0.1700         | 0.6914             | 0.1800           | 0.7044             |
| 0.2200         | 0.7304             | 0.2100           | 0.7419             |
| 0.2700         | 0.7713             | 0.2700           | 0.7942             |
| 0.3200         | 0.8061             | 0.3100           | 0.8388             |
| 0.3600         | 0.8437             | 0.3700           | 0.8800             |
| 0.4100         | 0.8749             | 0.4200           | 0.9170             |
| 0.5100         | 0.9366             | 0.5300           | 0.9804             |
| 0.7200         | 0.9978             | 0.7300           | 1.0029             |
| 0.9100         | 0.9975             | 0.9400           | 1.0045             |
| 1.1100         | 1.0005             | 1.1500           | 0.9996             |
| 1.3000         | 1.0001             | 1.3500           | 0.9957             |
| 1.5300         | 1.0007             | 1.5500           | 1.0031             |
| 1.7400         | 1.0013             | 1.7500           | 1.0016             |
| 1.9400         | 1.0005             | 1.9500           | 1.0040             |
| 2.1400         | 1.0013             | 2.1600           | 1.0011             |
| 2.3500         | 0.9997             | 2.3700           | 1.0034             |
| 2.5500         | 1.0007             | 2.5800           | 1.0035             |

Flight 23 Test point 51

Sweep, deg = 25.1 Mach = 0.71 hp, ft = 2500 Angle of attack, deg = 1.2  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 273.2 Rnpu = 2495000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5652                     | 0.1534                      | 0.0754                  | 0.2 X/c          |
| Outboard station rake | 0.4500                     | 0.1384                      | 0.0572                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4589             | 0.0400           | 0.2956             |
| 0.0500         | 0.5283             | 0.0700           | 0.4832             |
| 0.1100         | 0.6181             | 0.1200           | 0.6298             |
| 0.1700         | 0.6918             | 0.1800           | 0.7171             |
| 0.2200         | 0.7355             | 0.2100           | 0.7754             |
| 0.2700         | 0.7813             | 0.2700           | 0.8462             |
| 0.3200         | 0.8278             | 0.3100           | 0.9035             |
| 0.3600         | 0.8703             | 0.3700           | 0.9481             |
| 0.4100         | 0.9063             | 0.4200           | 0.9814             |
| 0.5100         | 0.9690             | 0.5300           | 1.0026             |
| 0.7200         | 1.0015             | 0.7300           | 1.0037             |
| 0.9100         | 1.0012             | 0.9400           | 1.0044             |
| 1.1100         | 1.0044             | 1.1500           | 0.9986             |
| 1.3000         | 1.0016             | 1.3500           | 0.9952             |
| 1.5300         | 1.0050             | 1.5500           | 1.0023             |
| 1.7400         | 1.0034             | 1.7500           | 1.0027             |
| 1.9400         | 1.0044             | 1.9500           | 1.0052             |
| 2.1400         | 1.0020             | 2.1600           | 0.9994             |
| 2.3500         | 1.0043             | 2.3700           | 1.0015             |
| 2.5500         | 1.0031             | 2.5800           | 1.0030             |



Flight 23 Test point 52

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 25300. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 266.2 Rrho = 2451000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5612                     | 0.1464                      | 0.0727                  | 0.2 x/c          |
| Outboard station rake | 0.4081                     | 0.1237                      | 0.0523                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4759             | 0.0400           | 0.3666             |
| 0.0500         | 0.5390             | 0.0700           | 0.5244             |
| 0.1100         | 0.6241             | 0.1200           | 0.6554             |
| 0.1700         | 0.7012             | 0.1800           | 0.7464             |
| 0.2200         | 0.7458             | 0.2100           | 0.8073             |
| 0.2700         | 0.7990             | 0.2700           | 0.8739             |
| 0.3200         | 0.8388             | 0.3100           | 0.9308             |
| 0.3600         | 0.8854             | 0.3700           | 0.9748             |
| 0.4100         | 0.9192             | 0.4200           | 0.9964             |
| 0.5100         | 0.9746             | 0.5300           | 1.0042             |
| 0.7200         | 1.0009             | 0.7300           | 1.0045             |
| 0.9100         | 1.0015             | 0.9400           | 1.0057             |
| 1.1100         | 1.0035             | 1.1500           | 1.0001             |
| 1.3000         | 1.0019             | 1.3500           | 0.9957             |
| 1.5300         | 1.0050             | 1.5500           | 1.0027             |
| 1.7400         | 1.0039             | 1.7500           | 1.0014             |
| 1.9400         | 1.0018             | 1.9500           | 1.0052             |
| 2.1400         | 1.0011             | 2.1600           | 1.0021             |
| 2.3500         | 1.0038             | 2.3700           | 1.0030             |
| 2.5500         | 1.0020             | 2.5800           | 1.0043             |

Flight 23 Test point 53

Sweep, deg = 25.1 Mach = 0.71 hp, ft = 24800. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 275.3 Rrho = 2511000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7357                     | 0.1607                      | 0.0801                  | 0.2 x/c          |
| Outboard station rake | 0.4787                     | 0.1544                      | 0.0639                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.4394 | 0.0400           | 0.2744 |
| 0.0500         | 0.5204 | 0.0700           | 0.4629 |
| 0.1100         | 0.6117 | 0.1200           | 0.5996 |
| 0.1700         | 0.6848 | 0.1800           | 0.6887 |
| 0.2200         | 0.7263 | 0.2100           | 0.7422 |
| 0.2700         | 0.7767 | 0.2700           | 0.8101 |
| 0.3200         | 0.8205 | 0.3100           | 0.8643 |
| 0.3600         | 0.8648 | 0.3700           | 0.9120 |
| 0.4100         | 0.8993 | 0.4200           | 0.9543 |
| 0.5100         | 0.9631 | 0.5300           | 1.0018 |
| 0.7200         | 0.9978 | 0.7300           | 1.0068 |
| 0.9100         | 0.9983 | 0.9400           | 1.0086 |
| 1.1100         | 1.0007 | 1.1500           | 1.0018 |
| 1.3000         | 0.9995 | 1.3500           | 0.9982 |
| 1.5300         | 1.0019 | 1.5500           | 1.0040 |
| 1.7400         | 1.0005 | 1.7500           | 1.0038 |
| 1.9400         | 0.9999 | 1.9500           | 1.0061 |
| 2.1400         | 0.9985 | 2.1600           | 1.0043 |
| 2.3500         | 1.0013 | 2.3700           | 1.0063 |
| 2.5500         | 1.0018 | 2.5800           | 1.0041 |

Flight 23 Test point 54

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 24900. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 269.1 Rrho = 2477000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7328                     | 0.1914                      | 0.0827                  | 0.2 x/c          |
| Outboard station rake | 0.5439                     | 0.1757                      | 0.0722                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2228             | 0.0400           | 0.5616             |
| 0.0500         | 0.2979             | 0.0700           | 0.3179             |
| 0.1100         | 0.5209             | 0.1200           | 0.4181             |
| 0.1700         | 0.6364             | 0.1800           | 0.6064             |
| 0.2200         | 0.6920             | 0.2100           | 0.6820             |
| 0.2700         | 0.7479             | 0.2700           | 0.7672             |
| 0.3200         | 0.7964             | 0.3100           | 0.8309             |
| 0.3600         | 0.8436             | 0.3700           | 0.8877             |
| 0.4100         | 0.8822             | 0.4200           | 0.9338             |
| 0.5100         | 0.9532             | 0.5300           | 0.9932             |
| 0.7200         | 0.9977             | 0.7300           | 1.0002             |
| 0.9100         | 0.9976             | 0.9400           | 1.0030             |
| 1.1100         | 1.0021             | 1.1500           | 0.9960             |
| 1.3000         | 0.9986             | 1.3500           | 0.9950             |
| 1.5300         | 1.0003             | 1.5500           | 1.0024             |
| 1.7400         | 1.0009             | 1.7500           | 1.0025             |
| 1.9400         | 1.0004             | 1.9500           | 1.0028             |
| 2.1400         | 1.0012             | 2.1600           | 1.0010             |
| 2.3500         | 1.0003             | 2.3700           | 1.0015             |
| 2.5500         | 1.0009             | 2.5800           | 1.0025             |

Flight 23 Test point 55

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 25800. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 263.2 Rrho = 2423000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7351                     | 0.1896                      | 0.0817                  | 0.2 x/c          |
| Outboard station rake | 0.4721                     | 0.1557                      | 0.0569                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2265             | 0.0400           | 0.4655             |
| 0.0500         | 0.2935             | 0.0700           | 0.1302             |
| 0.1100         | 0.5202             | 0.1200           | 0.5432             |
| 0.1700         | 0.6369             | 0.1800           | 0.6936             |
| 0.2200         | 0.6957             | 0.2100           | 0.7615             |
| 0.2700         | 0.7552             | 0.2700           | 0.8397             |
| 0.3200         | 0.8028             | 0.3100           | 0.8916             |
| 0.3600         | 0.8463             | 0.3700           | 0.9347             |
| 0.4100         | 0.8854             | 0.4200           | 0.9681             |
| 0.5100         | 0.9558             | 0.5300           | 1.0003             |
| 0.7200         | 0.9974             | 0.7300           | 1.0046             |
| 0.9100         | 0.9990             | 0.9400           | 1.0049             |
| 1.1100         | 1.0017             | 1.1500           | 1.0006             |
| 1.3000         | 0.9981             | 1.3500           | 0.9965             |
| 1.5300         | 1.0004             | 1.5500           | 1.0038             |
| 1.7400         | 1.0012             | 1.7500           | 1.0045             |
| 1.9400         | 1.0012             | 1.9500           | 1.0051             |
| 2.1400         | 1.0003             | 2.1600           | 1.0037             |
| 2.3500         | 1.0006             | 2.3700           | 1.0032             |
| 2.5500         | 1.0001             | 2.5800           | 1.0048             |

Flight 23 Test point 56

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 267.9 Rnpu = 2471000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7284                     | 0.1921                      | 0.0835                  | 0.2 x/c          |
| Outboard station rake | 0.5438                     | 0.1759                      | 0.0729                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2492             | 0.0400           | 0.5746             |
| 0.0500         | 0.2922             | 0.0700           | 0.3424             |
| 0.1100         | 0.5205             | 0.1200           | 0.4146             |
| 0.1700         | 0.6336             | 0.1800           | 0.5970             |
| 0.2200         | 0.6964             | 0.2100           | 0.6788             |
| 0.2700         | 0.7477             | 0.2700           | 0.7622             |
| 0.3200         | 0.7957             | 0.3100           | 0.8289             |
| 0.3600         | 0.8397             | 0.3700           | 0.8845             |
| 0.4100         | 0.8775             | 0.4200           | 0.9330             |
| 0.5100         | 0.9505             | 0.5300           | 0.9931             |
| 0.7200         | 0.9983             | 0.7300           | 1.0013             |
| 0.9100         | 0.9995             | 0.9400           | 1.0023             |
| 1.1100         | 0.9993             | 1.1500           | 0.9976             |
| 1.3000         | 0.9987             | 1.3500           | 0.9945             |
| 1.5300         | 1.0002             | 1.5500           | 1.0021             |
| 1.7400         | 1.0006             | 1.7500           | 1.0022             |
| 1.9400         | 1.0007             | 1.9500           | 1.0030             |
| 2.1400         | 1.0000             | 2.1600           | 0.9996             |
| 2.3500         | 1.0010             | 2.3700           | 1.0015             |
| 2.5500         | 1.0016             | 2.5800           | 1.0028             |

Flight 23 Test point 57

Sweep, deg = 20.0 Mach = 0.76 hp, ft = 25000, Angle of attack, deg = 0.3  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 313.0 Rnpu = 2689000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7287                     | 0.2125                      | 0.0878                  | 0.2 x/c          |
| Outboard station rake | 0.5433                     | 0.1974                      | 0.0755                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3124             | 0.0400           | 0.6419             |
| 0.0500         | 0.2040             | 0.0700           | 0.4888             |
| 0.1100         | 0.4665             | 0.1200           | 0.2168             |
| 0.1700         | 0.5936             | 0.1800           | 0.4983             |
| 0.2200         | 0.6567             | 0.2100           | 0.6073             |
| 0.2700         | 0.7104             | 0.2700           | 0.7081             |
| 0.3200         | 0.7624             | 0.3100           | 0.7842             |
| 0.3600         | 0.8154             | 0.3700           | 0.8502             |
| 0.4100         | 0.8540             | 0.4200           | 0.9089             |
| 0.5100         | 0.9383             | 0.5300           | 0.9909             |
| 0.7200         | 0.9978             | 0.7300           | 1.0010             |
| 0.9100         | 0.9995             | 0.9400           | 1.0030             |
| 1.1100         | 1.0014             | 1.1500           | 0.9978             |
| 1.3000         | 0.9999             | 1.3500           | 0.9967             |
| 1.5300         | 1.0005             | 1.5500           | 1.0006             |
| 1.7400         | 1.0007             | 1.7500           | 1.0011             |
| 1.9400         | 0.9995             | 1.9500           | 1.0040             |
| 2.1400         | 0.9997             | 2.1600           | 1.0000             |
| 2.3500         | 0.9999             | 2.3700           | 1.0018             |
| 2.5500         | 1.0010             | 2.5800           | 1.0032             |

Flight 23 Test point 58

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 24900. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 311.1 Rrho = 2683000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7305                     | 0.2152                      | 0.0894                  | 0.2 x/c          |
| Outboard station rake | 0.5427                     | 0.2010                      | 0.0735                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2941             | 0.0400           | 0.6679             |
| 0.0500         | 0.2190             | 0.0700           | 0.5211             |
| 0.1100         | 0.4677             | 0.1200           | 0.1460             |
| 0.1700         | 0.5894             | 0.1800           | 0.4742             |
| 0.2200         | 0.6499             | 0.2100           | 0.5931             |
| 0.2700         | 0.7090             | 0.2700           | 0.6999             |
| 0.3200         | 0.7570             | 0.3100           | 0.7812             |
| 0.3600         | 0.8069             | 0.3700           | 0.8490             |
| 0.4100         | 0.8506             | 0.4200           | 0.9072             |
| 0.5100         | 0.9323             | 0.5300           | 0.9910             |
| 0.7200         | 0.9972             | 0.7300           | 1.0010             |
| 0.9100         | 0.9994             | 0.9400           | 1.0035             |
| 1.1100         | 1.0014             | 1.1500           | 0.9975             |
| 1.3000         | 1.0002             | 1.3500           | 0.9967             |
| 1.5300         | 1.0003             | 1.5500           | 1.0027             |
| 1.7400         | 1.0004             | 1.7500           | 1.0016             |
| 1.9400         | 1.0006             | 1.9500           | 1.0036             |
| 2.1400         | 0.9995             | 2.1600           | 0.9989             |
| 2.3500         | 1.0006             | 2.3700           | 1.0018             |
| 2.5500         | 1.0004             | 2.5800           | 1.0017             |

Flight 23 Test point 59

Sweep, deg = 20.0 Mach = 0.76 hp, ft = 25100. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = 0.4 QBAR, lb/ft<sup>2</sup> = 312.1 Rrho = 2682000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7938                     | 0.2667                      | 0.1019                  | 0.2 x/c          |
| Outboard station rake | 0.7147                     | 0.2503                      | 0.0991                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.2297 | 0.0400           | 0.7220 |
| 0.0500         | 0.1655 | 0.0700           | 0.7265 |
| 0.1100         | 0.3764 | 0.1200           | 0.6035 |
| 0.1700         | 0.4927 | 0.1800           | 0.4848 |
| 0.2200         | 0.5513 | 0.2100           | 0.2935 |
| 0.2700         | 0.6027 | 0.2700           | 0.3475 |
| 0.3200         | 0.6587 | 0.3100           | 0.5279 |
| 0.3600         | 0.7172 | 0.3700           | 0.6527 |
| 0.4100         | 0.7695 | 0.4200           | 0.7522 |
| 0.5100         | 0.8766 | 0.5300           | 0.9312 |
| 0.7200         | 0.9981 | 0.7300           | 1.0051 |
| 0.9100         | 1.0027 | 0.9400           | 1.0063 |
| 1.1100         | 1.0051 | 1.1500           | 1.0011 |
| 1.3000         | 1.0020 | 1.3500           | 0.9982 |
| 1.5300         | 1.0024 | 1.5500           | 1.0005 |
| 1.7400         | 1.0009 | 1.7500           | 0.9985 |
| 1.9400         | 0.9979 | 1.9500           | 0.9984 |
| 2.1400         | 0.9953 | 2.1600           | 0.9974 |
| 2.3500         | 0.9971 | 2.3700           | 0.9979 |
| 2.5500         | 0.9967 | 2.5800           | 0.9967 |



Flight 23 Test point 60

Sweep, deg = 25.3 Mach = 0.75 hp, ft = 25000. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 311.0 Rrho = 2681000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | 0.7352                        | 0.1868                         | 0.0895                     | 0.2 x/c             |
| Outboard station rake | 0.5597                        | 0.1948                         | 0.0724                     | none                |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4078             | 0.0400           | 0.0947             |
| 0.0500         | 0.4908             | 0.0700           | 0.3573             |
| 0.1100         | 0.5748             | 0.1200           | 0.5184             |
| 0.1700         | 0.6355             | 0.1800           | 0.6158             |
| 0.2200         | 0.6868             | 0.2100           | 0.6737             |
| 0.2700         | 0.7435             | 0.2700           | 0.7460             |
| 0.3200         | 0.7771             | 0.3100           | 0.8034             |
| 0.3600         | 0.8247             | 0.3700           | 0.8542             |
| 0.4100         | 0.8647             | 0.4200           | 0.9072             |
| 0.5100         | 0.9367             | 0.5300           | 0.9817             |
| 0.7200         | 0.9963             | 0.7300           | 1.0037             |
| 0.9100         | 0.9983             | 0.9400           | 1.0044             |
| 1.1100         | 1.0043             | 1.1500           | 1.0014             |
| 1.3000         | 0.9976             | 1.3500           | 0.9949             |
| 1.5300         | 1.0003             | 1.5500           | 1.0044             |
| 1.7400         | 1.0025             | 1.7500           | 1.0021             |
| 1.9400         | 1.0003             | 1.9500           | 1.0053             |
| 2.1400         | 1.0008             | 2.1600           | 1.0016             |
| 2.3500         | 0.9977             | 2.3700           | 0.9997             |
| 2.5500         | 1.0019             | 2.5800           | 1.0007             |

Flight 23 Test point 61

Sweep, deg = 25.3 Mach = 0.75 hp, ft = 25000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.4 QBAR, lb/ft<sup>2</sup> = 304.8 Rrho = 2652000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7251                     | 0.1820                      | 0.0873                  | 0.2 x/c          |
| Outboard station rake | 0.5407                     | 0.1770                      | 0.0664                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.4009 | 0.0400           | 0.1103 |
| 0.0500         | 0.4813 | 0.0700           | 0.3880 |
| 0.1100         | 0.5714 | 0.1200           | 0.5567 |
| 0.1700         | 0.6520 | 0.1800           | 0.6469 |
| 0.2200         | 0.6938 | 0.2100           | 0.7040 |
| 0.2700         | 0.7409 | 0.2700           | 0.7778 |
| 0.3200         | 0.7879 | 0.3100           | 0.8369 |
| 0.3600         | 0.8317 | 0.3700           | 0.8916 |
| 0.4100         | 0.8702 | 0.4200           | 0.9386 |
| 0.5100         | 0.9448 | 0.5300           | 0.9950 |
| 0.7200         | 0.9989 | 0.7300           | 1.0009 |
| 0.9100         | 0.9982 | 0.9400           | 1.0029 |
| 1.1100         | 1.0010 | 1.1500           | 0.9972 |
| 1.3000         | 1.0000 | 1.3500           | 0.9958 |
| 1.5300         | 1.0012 | 1.5500           | 1.0020 |
| 1.7400         | 1.0001 | 1.7500           | 1.0004 |
| 1.9400         | 0.9993 | 1.9500           | 1.0025 |
| 2.1400         | 0.9997 | 2.1600           | 1.0012 |
| 2.3500         | 1.0013 | 2.3700           | 1.0004 |
| 2.5500         | 1.0003 | 2.5800           | 1.0018 |

Flight 23 Test point 62

Sweep, deg = 29.7 Mach = 0.75 hp, ft = 24900. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 309.3 Rrho = 2682000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7421                     | 0.1890                      | 0.0957                  | 0.2 x/c          |
| Outboard station rake | 0.7194                     | 0.1662                      | 0.0794                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5057             | 0.0400           | 0.4922             |
| 0.0500         | 0.5449             | 0.0700           | 0.5513             |
| 0.1100         | 0.6009             | 0.1200           | 0.6187             |
| 0.1700         | 0.6565             | 0.1800           | 0.6756             |
| 0.2200         | 0.6924             | 0.2100           | 0.7162             |
| 0.2700         | 0.7298             | 0.2700           | 0.7721             |
| 0.3200         | 0.7661             | 0.3100           | 0.8180             |
| 0.3600         | 0.8084             | 0.3700           | 0.8601             |
| 0.4100         | 0.8405             | 0.4200           | 0.8991             |
| 0.5100         | 0.9070             | 0.5300           | 0.9691             |
| 0.7200         | 0.9922             | 0.7300           | 1.0015             |
| 0.9100         | 0.9980             | 0.9400           | 1.0033             |
| 1.1100         | 1.0016             | 1.1500           | 0.9977             |
| 1.3000         | 1.0013             | 1.3500           | 0.9946             |
| 1.5300         | 1.0015             | 1.5500           | 1.0006             |
| 1.7400         | 1.0014             | 1.7500           | 0.9991             |
| 1.9400         | 1.0016             | 1.9500           | 1.0017             |
| 2.1400         | 1.0008             | 2.1600           | 1.0005             |
| 2.3500         | 1.0004             | 2.3700           | 1.0007             |
| 2.5500         | 1.0011             | 2.5800           | 1.0004             |

Flight 23 Test point 63

Sweep, deg = 29.5 Mach = 0.75 hp, ft = 25600. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 302.6 Rrho = 2623000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7413                     | 0.1864                      | 0.0946                  | 0.2 x/c          |
| Outboard station rake | 0.5724                     | 0.1589                      | 0.0747                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5103 | 0.0400           | 0.4942 |
| 0.0500         | 0.5496 | 0.0700           | 0.5543 |
| 0.1100         | 0.6072 | 0.1200           | 0.6234 |
| 0.1700         | 0.6577 | 0.1800           | 0.6822 |
| 0.2200         | 0.6969 | 0.2100           | 0.7240 |
| 0.2700         | 0.7349 | 0.2700           | 0.7820 |
| 0.3200         | 0.7748 | 0.3100           | 0.8293 |
| 0.3600         | 0.8112 | 0.3700           | 0.8717 |
| 0.4100         | 0.8453 | 0.4200           | 0.9106 |
| 0.5100         | 0.9090 | 0.5300           | 0.9770 |
| 0.7200         | 0.9926 | 0.7300           | 1.0027 |
| 0.9100         | 0.9996 | 0.9400           | 1.0047 |
| 1.1100         | 1.0017 | 1.1500           | 1.0008 |
| 1.3000         | 1.0000 | 1.3500           | 0.9969 |
| 1.5300         | 1.0011 | 1.5500           | 1.0035 |
| 1.7400         | 1.0019 | 1.7500           | 1.0025 |
| 1.9400         | 1.0005 | 1.9500           | 1.0045 |
| 2.1400         | 0.9997 | 2.1600           | 1.0021 |
| 2.3500         | 1.0012 | 2.3700           | 1.0037 |
| 2.5500         | 1.0017 | 2.5800           | 1.0017 |

Flight 23 Test point 64

Sweep, deg = 29.2 Mach = 0.75 hp, ft = 25100. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 308.5 Rrho = 2664000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7403                     | 0.1905                      | 0.0960                  | 0.2 x/c          |
| Outboard station rake | 0.5708                     | 0.1685                      | 0.0776                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5039 | 0.0400           | 0.4674 |
| 0.0500         | 0.5397 | 0.0700           | 0.5251 |
| 0.1100         | 0.5967 | 0.1200           | 0.6028 |
| 0.1700         | 0.6581 | 0.1800           | 0.6602 |
| 0.2200         | 0.6962 | 0.2100           | 0.6981 |
| 0.2700         | 0.7305 | 0.2700           | 0.7608 |
| 0.3200         | 0.7652 | 0.3100           | 0.8134 |
| 0.3600         | 0.8053 | 0.3700           | 0.8588 |
| 0.4100         | 0.8383 | 0.4200           | 0.9010 |
| 0.5100         | 0.9044 | 0.5300           | 0.9757 |
| 0.7200         | 0.9925 | 0.7300           | 1.0004 |
| 0.9100         | 0.9995 | 0.9400           | 1.0029 |
| 1.1100         | 1.0018 | 1.1500           | 0.9982 |
| 1.3000         | 1.0011 | 1.3500           | 0.9954 |
| 1.5300         | 1.0020 | 1.5500           | 1.0017 |
| 1.7400         | 0.9996 | 1.7500           | 0.9998 |
| 1.9400         | 1.0004 | 1.9500           | 1.0012 |
| 2.1400         | 1.0006 | 2.1600           | 0.9995 |
| 2.3500         | 1.0007 | 2.3700           | 1.0007 |
| 2.5500         | 1.0019 | 2.5800           | 1.0003 |

Flight 23 Test point 65

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 353.4 Rrho = 2877000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7159                     | 0.2785                      | 0.0925                  | 0.2 x/c          |
| Outboard station rake | 0.7104                     | 0.2569                      | 0.0831                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5102             | 0.0400           | 0.5898             |
| 0.0500         | 0.4709             | 0.0700           | 0.5664             |
| 0.1100         | 0.3144             | 0.1200           | 0.3929             |
| 0.1700         | 0.2249             | 0.1800           | 0.1063             |
| 0.2200         | 0.4068             | 0.2100           | 0.3565             |
| 0.2700         | 0.5349             | 0.2700           | 0.5340             |
| 0.3200         | 0.6367             | 0.3100           | 0.6505             |
| 0.3600         | 0.7240             | 0.3700           | 0.7521             |
| 0.4100         | 0.7953             | 0.4200           | 0.8410             |
| 0.5100         | 0.9133             | 0.5300           | 0.9691             |
| 0.7200         | 1.0015             | 0.7300           | 1.0029             |
| 0.9100         | 1.0015             | 0.9400           | 1.0035             |
| 1.1100         | 1.0019             | 1.1500           | 1.0005             |
| 1.3000         | 1.0013             | 1.3500           | 0.9988             |
| 1.5300         | 1.0008             | 1.5500           | 1.0003             |
| 1.7400         | 1.0016             | 1.7500           | 1.0019             |
| 1.9400         | 1.0015             | 1.9500           | 1.0011             |
| 2.1400         | 1.0005             | 2.1600           | 0.9968             |
| 2.3500         | 0.9948             | 2.3700           | 0.9972             |
| 2.5500         | 0.9945             | 2.5800           | 0.9970             |

Flight 23 Test point 66

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25200. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 349.7 Rrho = 2856000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7549                     | 0.3727                      | 0.0913                  | 0.2 x/c          |
| Outboard station rake | 0.7086                     | 0.2855                      | 0.0847                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1768             | 0.0400           | 0.4695             |
| 0.0500         | 0.1770             | 0.0700           | 0.4592             |
| 0.1100         | 0.0877             | 0.1200           | 0.3227             |
| 0.1700         | 0.1597             | 0.1800           | 0.1058             |
| 0.2200         | 0.2462             | 0.2100           | 0.2909             |
| 0.2700         | 0.3435             | 0.2700           | 0.4750             |
| 0.3200         | 0.4448             | 0.3100           | 0.5994             |
| 0.3600         | 0.5404             | 0.3700           | 0.7130             |
| 0.4100         | 0.6420             | 0.4200           | 0.8081             |
| 0.5100         | 0.8118             | 0.5300           | 0.9571             |
| 0.7200         | 0.9990             | 0.7300           | 1.0045             |
| 0.9100         | 1.0039             | 0.9400           | 1.0057             |
| 1.1100         | 1.0052             | 1.1500           | 1.0024             |
| 1.3000         | 1.0037             | 1.3500           | 1.0004             |
| 1.5300         | 1.0023             | 1.5500           | 1.0037             |
| 1.7400         | 1.0041             | 1.7500           | 1.0026             |
| 1.9400         | 1.0028             | 1.9500           | 0.9991             |
| 2.1400         | 1.0007             | 2.1600           | 0.9958             |
| 2.3500         | 0.9923             | 2.3700           | 0.9938             |
| 2.5500         | 0.9851             | 2.5800           | 0.9921             |

Flight 23 Test point 67

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25200. Angle of attack, deg = 2.1  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 349.4 Rrho = 2853000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 1.8456                     | 0.9309                      | 0.2101                  | 0.2 x/c          |
| Outboard station rake | 0.6994                     | 0.2876                      | 0.0806                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.1780 | 0.0400           | 0.4532 |
| 0.0500         | 0.1869 | 0.0700           | 0.4367 |
| 0.1100         | 0.2104 | 0.1200           | 0.2923 |
| 0.1700         | 0.2278 | 0.1800           | 0.0588 |
| 0.2200         | 0.2408 | 0.2100           | 0.3096 |
| 0.2700         | 0.2326 | 0.2700           | 0.4820 |
| 0.3200         | 0.2601 | 0.3100           | 0.6041 |
| 0.3600         | 0.2442 | 0.3700           | 0.7189 |
| 0.4100         | 0.2575 | 0.4200           | 0.8156 |
| 0.5100         | 0.2847 | 0.5300           | 0.9647 |
| 0.7200         | 0.0434 | 0.7300           | 1.0056 |
| 0.9100         | 0.4407 | 0.9400           | 1.0071 |
| 1.1100         | 0.7091 | 1.1500           | 1.0033 |
| 1.3000         | 0.8694 | 1.3500           | 1.0023 |
| 1.5300         | 0.9575 | 1.5500           | 1.0044 |
| 1.7400         | 0.9864 | 1.7500           | 1.0035 |
| 1.9400         | 0.9998 | 1.9500           | 0.9946 |
| 2.1400         | 1.0028 | 2.1600           | 0.9938 |
| 2.3500         | 1.0052 | 2.3700           | 0.9927 |
| 2.5500         | 1.0057 | 2.5800           | 0.9929 |



Flight 24 Test point 1

Sweep, deg = 20.0 Mach = 0.60 hp, ft = 10000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 370.5 R<sub>npu</sub> = 3557000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7392                     | 0.1700                      | 0.0881                  | 0.4 x/c          |
| Outboard station rake | 0.3820                     | 0.1155                      | 0.0480                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3527             | 0.0400           | 0.3012             |
| 0.0500         | 0.4854             | 0.0700           | 0.5162             |
| 0.1100         | 0.6053             | 0.1200           | 0.6735             |
| 0.1700         | 0.6863             | 0.1800           | 0.7738             |
| 0.2200         | 0.7304             | 0.2100           | 0.8343             |
| 0.2700         | 0.7706             | 0.2700           | 0.9025             |
| 0.3200         | 0.8087             | 0.3100           | 0.9510             |
| 0.3600         | 0.8419             | 0.3700           | 0.9855             |
| 0.4100         | 0.8728             | 0.4200           | 0.9971             |
| 0.5100         | 0.9316             | 0.5300           | 1.0008             |
| 0.7200         | 0.9950             | 0.7300           | 1.0019             |
| 0.9100         | 0.9988             | 0.9400           | 1.0020             |
| 1.1100         | 1.0008             | 1.1500           | 0.9991             |
| 1.3000         | 1.0004             | 1.3500           | 0.9974             |
| 1.5300         | 1.0011             | 1.5500           | 1.0025             |
| 1.7400         | 1.0016             | 1.7500           | 1.0028             |
| 1.9400         | 1.0010             | 1.9500           | 1.0032             |
| 2.1400         | 0.9999             | 2.1600           | 1.0023             |
| 2.3500         | 1.0009             | 2.3700           | 1.0026             |
| 2.5500         | 1.0005             | 2.5800           | 1.0029             |

Flight 24 Test point 2

Sweep, deg = 20.0 Mach = 0.60 hp, ft = 9900. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -5.2 QBAR, lb/ft<sup>2</sup> = 368.9 Rrho = 3555000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7352                     | 0.1952                      | 0.0900                  | 0.4 x/c          |
| Outboard station rake | 0.3714                     | 0.1304                      | 0.0456                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5221             | 0.0400           | 0.5377             |
| 0.0500         | 0.2958             | 0.0700           | 0.1201             |
| 0.1100         | 0.4132             | 0.1200           | 0.5585             |
| 0.1700         | 0.5928             | 0.1800           | 0.7322             |
| 0.2200         | 0.6729             | 0.2100           | 0.8186             |
| 0.2700         | 0.7301             | 0.2700           | 0.9052             |
| 0.3200         | 0.7822             | 0.3100           | 0.9605             |
| 0.3600         | 0.8297             | 0.3700           | 0.9899             |
| 0.4100         | 0.8670             | 0.4200           | 0.9952             |
| 0.5100         | 0.9404             | 0.5300           | 0.9979             |
| 0.7200         | 0.9965             | 0.7300           | 1.0011             |
| 0.9100         | 0.9990             | 0.9400           | 1.0031             |
| 1.1100         | 0.9998             | 1.1500           | 0.9979             |
| 1.3000         | 1.0007             | 1.3500           | 0.9974             |
| 1.5300         | 1.0008             | 1.5500           | 1.0023             |
| 1.7400         | 1.0009             | 1.7500           | 1.0030             |
| 1.9400         | 1.0005             | 1.9500           | 1.0031             |
| 2.1400         | 0.9993             | 2.1600           | 1.0027             |
| 2.3500         | 1.0009             | 2.3700           | 1.0029             |
| 2.5500         | 1.0017             | 2.5800           | 1.0036             |

Flight 24 Test point 3

Sweep, deg = 20.0 Mach = 0.61 hp, ft = 9600. Angle of attack, deg = 2.9  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 385.4 Rnpu = 3660000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7404                     | 0.1923                      | 0.0938                  | 0.4 x/c          |
| Outboard station rake | 0.5584                     | 0.1666                      | 0.0694                  | 0.4 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.2288 | 0.0400           | 0.2208 |
| 0.0500         | 0.4173 | 0.0700           | 0.3667 |
| 0.1100         | 0.5697 | 0.1200           | 0.5711 |
| 0.1700         | 0.6590 | 0.1800           | 0.6759 |
| 0.2200         | 0.7023 | 0.2100           | 0.7301 |
| 0.2700         | 0.7427 | 0.2700           | 0.7942 |
| 0.3200         | 0.7819 | 0.3100           | 0.8456 |
| 0.3600         | 0.8168 | 0.3700           | 0.8918 |
| 0.4100         | 0.8482 | 0.4200           | 0.9314 |
| 0.5100         | 0.9092 | 0.5300           | 0.9871 |
| 0.7200         | 0.9929 | 0.7300           | 1.0014 |
| 0.9100         | 0.9990 | 0.9400           | 1.0023 |
| 1.1100         | 1.0006 | 1.1500           | 0.9992 |
| 1.3000         | 1.0013 | 1.3500           | 0.9971 |
| 1.5300         | 1.0011 | 1.5500           | 1.0020 |
| 1.7400         | 1.0018 | 1.7500           | 1.0021 |
| 1.9400         | 1.0012 | 1.9500           | 1.0026 |
| 2.1400         | 0.9992 | 2.1600           | 1.0015 |
| 2.3500         | 1.0015 | 2.3700           | 1.0027 |
| 2.5500         | 1.0015 | 2.5800           | 1.0019 |

Flight 24 Test point 4

Sweep, deg = 20.0 Mach = 0.61 hp, ft = 10000. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 376.9 Rnpu = 3595000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7371                     | 0.1733                      | 0.0889                  | 0.4 x/c          |
| Outboard station rake | 0.4389                     | 0.1340                      | 0.0541                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3371             | 0.0400           | 0.2075             |
| 0.0500         | 0.4772             | 0.0700           | 0.4670             |
| 0.1100         | 0.6032             | 0.1200           | 0.6346             |
| 0.1700         | 0.6810             | 0.1800           | 0.7372             |
| 0.2200         | 0.7249             | 0.2100           | 0.7950             |
| 0.2700         | 0.7660             | 0.2700           | 0.8600             |
| 0.3200         | 0.8021             | 0.3100           | 0.9131             |
| 0.3600         | 0.8388             | 0.3700           | 0.9582             |
| 0.4100         | 0.8680             | 0.4200           | 0.9877             |
| 0.5100         | 0.9294             | 0.5300           | 0.9995             |
| 0.7200         | 0.9953             | 0.7300           | 1.0016             |
| 0.9100         | 0.9990             | 0.9400           | 1.0024             |
| 1.1100         | 1.0006             | 1.1500           | 0.9993             |
| 1.3000         | 0.9997             | 1.3500           | 0.9985             |
| 1.5300         | 1.0018             | 1.5500           | 1.0023             |
| 1.7400         | 1.0000             | 1.7500           | 1.0019             |
| 1.9400         | 1.0012             | 1.9500           | 1.0027             |
| 2.1400         | 1.0002             | 2.1600           | 1.0010             |
| 2.3500         | 1.0005             | 2.3700           | 1.0016             |
| 2.5500         | 1.0016             | 2.5800           | 1.0014             |

Flight 24 Test point 5

Sweep, deg = 25.0 Mach = 0.61 hp, ft = 9900. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 374.3 Rrho = 3596000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5669                     | 0.1316                      | 0.0715                  | 0.4 x/c          |
| Outboard station rake | 0.4264                     | 0.1036                      | 0.0509                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5530             | 0.0400           | 0.5633             |
| 0.0500         | 0.6029             | 0.0700           | 0.6364             |
| 0.1100         | 0.6690             | 0.1200           | 0.7140             |
| 0.1700         | 0.7322             | 0.1800           | 0.7830             |
| 0.2200         | 0.7701             | 0.2100           | 0.8296             |
| 0.2700         | 0.8116             | 0.2700           | 0.8872             |
| 0.3200         | 0.8487             | 0.3100           | 0.9296             |
| 0.3600         | 0.8842             | 0.3700           | 0.9681             |
| 0.4100         | 0.9161             | 0.4200           | 0.9907             |
| 0.5100         | 0.9718             | 0.5300           | 1.0013             |
| 0.7200         | 1.0008             | 0.7300           | 1.0014             |
| 0.9100         | 1.0018             | 0.9400           | 1.0023             |
| 1.1100         | 1.0031             | 1.1500           | 0.9987             |
| 1.3000         | 1.0041             | 1.3500           | 0.9967             |
| 1.5300         | 1.0033             | 1.5500           | 1.0022             |
| 1.7400         | 1.0035             | 1.7500           | 1.0001             |
| 1.9400         | 1.0036             | 1.9500           | 1.0023             |
| 2.1400         | 1.0014             | 2.1600           | 1.0008             |
| 2.3500         | 1.0033             | 2.3700           | 1.0017             |
| 2.5500         | 1.0032             | 2.5800           | 1.0019             |

Flight 24 Test point 6

Sweep, deg = 24.9 Mach = 0.60 hp, ft = 9800. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 366.5 Rrho = 3557000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5836                     | 0.1321                      | 0.0728                  | 0.4 x/c          |
| Outboard station rake | 0.4608                     | 0.1075                      | 0.0546                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5635             | 0.0400           | 0.5795             |
| 0.0500         | 0.6115             | 0.0700           | 0.6428             |
| 0.1100         | 0.6726             | 0.1200           | 0.7139             |
| 0.1700         | 0.7294             | 0.1800           | 0.7762             |
| 0.2200         | 0.7689             | 0.2100           | 0.8161             |
| 0.2700         | 0.8116             | 0.2700           | 0.8686             |
| 0.3200         | 0.8466             | 0.3100           | 0.9118             |
| 0.3600         | 0.8804             | 0.3700           | 0.9490             |
| 0.4100         | 0.9119             | 0.4200           | 0.9791             |
| 0.5100         | 0.9654             | 0.5300           | 1.0027             |
| 0.7200         | 1.0011             | 0.7300           | 1.0015             |
| 0.9100         | 1.0023             | 0.9400           | 1.0039             |
| 1.1100         | 1.0031             | 1.1500           | 1.0002             |
| 1.3000         | 1.0032             | 1.3500           | 0.9976             |
| 1.5300         | 1.0048             | 1.5500           | 1.0022             |
| 1.7400         | 1.0051             | 1.7500           | 1.0021             |
| 1.9400         | 1.0043             | 1.9500           | 1.0038             |
| 2.1400         | 1.0021             | 2.1600           | 1.0011             |
| 2.3500         | 1.0043             | 2.3700           | 1.0025             |
| 2.5500         | 1.0043             | 2.5800           | 1.0032             |

Flight 24 Test point 7

Sweep, deg = 24.9 Mach = 0.60 hp, ft = 10400. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 365.1 Rrho = 3529000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5752                     | 0.1294                      | 0.0709                  | 0.4 x/c          |
| Outboard station rake | 0.4416                     | 0.1019                      | 0.0509                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5604             | 0.0400           | 0.5783             |
| 0.0500         | 0.6151             | 0.0700           | 0.6479             |
| 0.1100         | 0.6767             | 0.1200           | 0.7233             |
| 0.1700         | 0.7350             | 0.1800           | 0.7851             |
| 0.2200         | 0.7747             | 0.2100           | 0.8337             |
| 0.2700         | 0.8154             | 0.2700           | 0.8847             |
| 0.3200         | 0.8525             | 0.3100           | 0.9284             |
| 0.3600         | 0.8893             | 0.3700           | 0.9664             |
| 0.4100         | 0.9178             | 0.4200           | 0.9880             |
| 0.5100         | 0.9700             | 0.5300           | 1.0011             |
| 0.7200         | 1.0015             | 0.7300           | 1.0013             |
| 0.9100         | 1.0009             | 0.9400           | 1.0038             |
| 1.1100         | 1.0019             | 1.1500           | 0.9984             |
| 1.3000         | 1.0034             | 1.3500           | 0.9977             |
| 1.5300         | 1.0039             | 1.5500           | 1.0020             |
| 1.7400         | 1.0033             | 1.7500           | 1.0009             |
| 1.9400         | 1.0039             | 1.9500           | 1.0036             |
| 2.1400         | 1.0021             | 2.1600           | 0.9989             |
| 2.3500         | 1.0052             | 2.3700           | 1.0014             |
| 2.5500         | 1.0040             | 2.5800           | 1.0029             |

Flight 24 Test point 8

Sweep, deg = 24.9 Mach = 0.60 hp, ft = 9800. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 372.8 Rrho = 3582000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5758                     | 0.1331                      | 0.0723                  | 0.4 x/c          |
| Outboard station rake | 0.4405                     | 0.1055                      | 0.0522                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5452             | 0.0400           | 0.5624             |
| 0.0500         | 0.6025             | 0.0700           | 0.6339             |
| 0.1100         | 0.6695             | 0.1200           | 0.7092             |
| 0.1700         | 0.7294             | 0.1800           | 0.7755             |
| 0.2200         | 0.7697             | 0.2100           | 0.8249             |
| 0.2700         | 0.8097             | 0.2700           | 0.8808             |
| 0.3200         | 0.8453             | 0.3100           | 0.9246             |
| 0.3600         | 0.8823             | 0.3700           | 0.9637             |
| 0.4100         | 0.9137             | 0.4200           | 0.9885             |
| 0.5100         | 0.9682             | 0.5300           | 1.0011             |
| 0.7200         | 1.0013             | 0.7300           | 1.0012             |
| 0.9100         | 1.0022             | 0.9400           | 1.0029             |
| 1.1100         | 1.0024             | 1.1500           | 0.9993             |
| 1.3000         | 1.0032             | 1.3500           | 0.9967             |
| 1.5300         | 1.0038             | 1.5500           | 1.0010             |
| 1.7400         | 1.0049             | 1.7500           | 1.0008             |
| 1.9400         | 1.0034             | 1.9500           | 1.0025             |
| 2.1400         | 1.0025             | 2.1600           | 1.0014             |
| 2.3500         | 1.0041             | 2.3700           | 1.0024             |
| 2.5500         | 1.0040             | 2.5800           | 1.0021             |



Flight 24 Test point 9

Sweep, deg = 24.9 Mach = 0.70 hp, ft = 9900. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 502.4 Rrho = 4203000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7342                     | 0.1663                      | 0.0863                  | 0.4 x/c          |
| Outboard station rake | 0.5615                     | 0.1484                      | 0.0703                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4901             | 0.0400           | 0.4542             |
| 0.0500         | 0.5503             | 0.0700           | 0.5500             |
| 0.1100         | 0.6263             | 0.1200           | 0.6441             |
| 0.1700         | 0.6902             | 0.1800           | 0.7088             |
| 0.2200         | 0.7292             | 0.2100           | 0.7513             |
| 0.2700         | 0.7708             | 0.2700           | 0.8034             |
| 0.3200         | 0.8057             | 0.3100           | 0.8478             |
| 0.3600         | 0.8425             | 0.3700           | 0.8911             |
| 0.4100         | 0.8761             | 0.4200           | 0.9278             |
| 0.5100         | 0.9356             | 0.5300           | 0.9852             |
| 0.7200         | 0.9964             | 0.7300           | 1.0010             |
| 0.9100         | 0.9991             | 0.9400           | 1.0030             |
| 1.1100         | 1.0008             | 1.1500           | 1.0000             |
| 1.3000         | 1.0004             | 1.3500           | 0.9992             |
| 1.5300         | 1.0007             | 1.5500           | 1.0015             |
| 1.7400         | 1.0012             | 1.7500           | 1.0017             |
| 1.9400         | 1.0002             | 1.9500           | 1.0024             |
| 2.1400         | 0.9995             | 2.1600           | 1.0015             |
| 2.3500         | 1.0008             | 2.3700           | 1.0027             |
| 2.5500         | 1.0009             | 2.5800           | 1.0017             |

Flight 24 Test point 10

Sweep, deg = 24.9 Mach = 0.70 hp, ft = 9900. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 499.7 Rrho = 4201000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7299                     | 0.1674                      | 0.0867                  | 0.4 x/c          |
| Outboard station rake | 0.4930                     | 0.1402                      | 0.0648                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4857             | 0.0400           | 0.4528             |
| 0.0500         | 0.5501             | 0.0700           | 0.5556             |
| 0.1100         | 0.6259             | 0.1200           | 0.645              |
| 0.1700         | 0.6881             | 0.1800           | 0.7186             |
| 0.2200         | 0.7257             | 0.2100           | 0.7630             |
| 0.2700         | 0.7661             | 0.2700           | 0.8159             |
| 0.3200         | 0.8052             | 0.3100           | 0.8632             |
| 0.3600         | 0.8406             | 0.3700           | 0.9109             |
| 0.4100         | 0.8734             | 0.4200           | 0.9492             |
| 0.5100         | 0.9347             | 0.5300           | 0.9975             |
| 0.7200         | 0.9974             | 0.7300           | 1.0064             |
| 0.9100         | 1.0000             | 0.9400           | 1.0058             |
| 1.1100         | 1.0010             | 1.1500           | 1.0033             |
| 1.3000         | 0.9993             | 1.3500           | 1.0034             |
| 1.5300         | 1.0001             | 1.5500           | 1.0054             |
| 1.7400         | 1.0005             | 1.7500           | 1.0060             |
| 1.9400         | 1.0001             | 1.9500           | 1.0065             |
| 2.1400         | 0.9995             | 2.1600           | 1.0055             |
| 2.3500         | 1.0013             | 2.3700           | 1.0059             |
| 2.5500         | 1.0007             | 2.5800           | 1.0050             |

Flight 24 Test point 11

Sweep, deg = 24.9 Mach = 0.70 hp, ft = 10100. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 494.9 Rrho = 4170000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7359                     | 0.1780                      | 0.0911                  | 0.4 x/c          |
| Outboard station rake | 0.5634                     | 0.1561                      | 0.0716                  | 0.4 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.4607 | 0.0400           | 0.3951 |
| 0.0500         | 0.5342 | 0.0700           | 0.5202 |
| 0.1100         | 0.6124 | 0.1200           | 0.6204 |
| 0.1700         | 0.6749 | 0.1800           | 0.6928 |
| 0.2200         | 0.7138 | 0.2100           | 0.7364 |
| 0.2700         | 0.7540 | 0.2700           | 0.7914 |
| 0.3200         | 0.7904 | 0.3100           | 0.8410 |
| 0.3600         | 0.8256 | 0.3700           | 0.8861 |
| 0.4100         | 0.8562 | 0.4200           | 0.9271 |
| 0.5100         | 0.9209 | 0.5300           | 0.9844 |
| 0.7200         | 0.9951 | 0.7300           | 1.0019 |
| 0.9100         | 0.9998 | 0.9400           | 1.0023 |
| 1.1100         | 1.0012 | 1.1500           | 1.0008 |
| 1.3000         | 1.0007 | 1.3500           | 0.9993 |
| 1.5300         | 1.0012 | 1.5500           | 1.0019 |
| 1.7400         | 1.0007 | 1.7500           | 1.0014 |
| 1.9400         | 0.9999 | 1.9500           | 1.0023 |
| 2.1400         | 0.9997 | 2.1600           | 1.0020 |
| 2.3500         | 1.0016 | 2.3700           | 1.0019 |
| 2.5500         | 1.0001 | 2.5800           | 1.0018 |

Flight 24 Test point 12

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = -0.1  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 499.9 Rrho = 4199000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7272                     | 0.1928                      | 0.0833                  | 0.4 x/c          |
| Outboard station rake | 0.4516                     | 0.1505                      | 0.0586                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.0587             | 0.0400           | 0.3029             |
| 0.0500         | 0.3782             | 0.0700           | 0.3326             |
| 0.1100         | 0.5504             | 0.1200           | 0.5744             |
| 0.1700         | 0.6485             | 0.1800           | 0.6951             |
| 0.2200         | 0.7031             | 0.2100           | 0.7640             |
| 0.2700         | 0.7487             | 0.2700           | 0.8337             |
| 0.3200         | 0.7922             | 0.3100           | 0.8906             |
| 0.3600         | 0.8332             | 0.3700           | 0.9409             |
| 0.4100         | 0.8706             | 0.4200           | 0.9781             |
| 0.5100         | 0.9405             | 0.5300           | 1.0009             |
| 0.7200         | 0.9983             | 0.7300           | 1.0024             |
| 0.9100         | 0.9996             | 0.9400           | 1.0026             |
| 1.1100         | 1.0005             | 1.1500           | 1.0004             |
| 1.3000         | 0.9994             | 1.3500           | 0.9999             |
| 1.5300         | 1.0003             | 1.5500           | 1.0021             |
| 1.7400         | 1.0008             | 1.7500           | 1.0029             |
| 1.9400         | 1.0002             | 1.9500           | 1.0032             |
| 2.1400         | 0.9994             | 2.1600           | 1.0017             |
| 2.3500         | 1.0006             | 2.3700           | 1.0026             |
| 2.5500         | 1.0010             | 2.5800           | 1.0032             |

Flight 24 Test point 13

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = -4.9 QBAR, lb/ft<sup>2</sup> = 500.2 Rho = 4200000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7306                     | 0.2060                      | 0.0888                  | 0.4 x/c          |
| Outboard station rake | 0.3223                     | 0.1161                      | 0.0450                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.6462             | 0.0400           | 0.6583             |
| 0.0500         | 0.4572             | 0.0700           | 0.3544             |
| 0.1100         | 0.2713             | 0.1200           | 0.5237             |
| 0.1700         | 0.5412             | 0.1800           | 0.7384             |
| 0.2200         | 0.6424             | 0.2100           | 0.8456             |
| 0.2700         | 0.7071             | 0.2700           | 0.9389             |
| 0.3200         | 0.7688             | 0.3100           | 0.9862             |
| 0.3600         | 0.8196             | 0.3700           | 0.9975             |
| 0.4100         | 0.8626             | 0.4200           | 0.9967             |
| 0.5100         | 0.9403             | 0.5300           | 0.9977             |
| 0.7200         | 0.9975             | 0.7300           | 1.0011             |
| 0.9100         | 0.9997             | 0.9400           | 1.0024             |
| 1.1100         | 1.0004             | 1.1500           | 1.0006             |
| 1.3000         | 0.9995             | 1.3500           | 0.9987             |
| 1.5300         | 1.0010             | 1.5500           | 1.0030             |
| 1.7400         | 1.0010             | 1.7500           | 1.0029             |
| 1.9400         | 1.0001             | 1.9500           | 1.0038             |
| 2.1400         | 0.9995             | 2.1600           | 1.0020             |
| 2.3500         | 1.0003             | 2.3700           | 1.0035             |
| 2.5500         | 1.0011             | 2.5800           | 1.0038             |

Flight 24 Test point 14

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 497.4 Rrho = 4156000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7254                     | 0.1943                      | 0.0837                  | 0.4 x/c          |
| Outboard station rake | 0.3934                     | 0.1334                      | 0.0489                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1859             | 0.0400           | 0.3308             |
| 0.0500         | 0.3526             | 0.0700           | 0.3522             |
| 0.1100         | 0.5523             | 0.1200           | 0.6119             |
| 0.1700         | 0.6548             | 0.1800           | 0.7389             |
| 0.2200         | 0.7073             | 0.2100           | 0.8137             |
| 0.2700         | 0.7539             | 0.2700           | 0.8885             |
| 0.3200         | 0.7970             | 0.3100           | 0.9468             |
| 0.3600         | 0.8359             | 0.3700           | 0.9860             |
| 0.4100         | 0.8722             | 0.4200           | 0.9987             |
| 0.5100         | 0.9377             | 0.5300           | 1.0004             |
| 0.7200         | 0.9986             | 0.7300           | 1.0013             |
| 0.9100         | 0.9995             | 0.9400           | 1.0016             |
| 1.1100         | 1.0006             | 1.1500           | 1.0002             |
| 1.3000         | 0.9996             | 1.3500           | 0.9993             |
| 1.5300         | 0.9985             | 1.5500           | 1.0022             |
| 1.7400         | 1.0002             | 1.7500           | 1.0015             |
| 1.9400         | 1.0008             | 1.9500           | 1.0029             |
| 2.1400         | 1.0002             | 2.1600           | 1.0019             |
| 2.3500         | 1.0011             | 2.3700           | 1.0023             |
| 2.5500         | 1.0010             | 2.5800           | 1.0018             |

Flight 24 Test point 15

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 497.6 Rrho = 4183000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7310                     | 0.2049                      | 0.0905                  | 0.4 x/c          |
| Outboard station rake | 0.3911                     | 0.1325                      | 0.0493                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2427             | 0.0400           | 0.3874             |
| 0.0500         | 0.2987             | 0.0700           | 0.2960             |
| 0.1100         | 0.5165             | 0.1200           | 0.5890             |
| 0.1700         | 0.6269             | 0.1800           | 0.7297             |
| 0.2200         | 0.6810             | 0.2100           | 0.8111             |
| 0.2700         | 0.7276             | 0.2700           | 0.8934             |
| 0.3200         | 0.7718             | 0.3100           | 0.9513             |
| 0.3600         | 0.8138             | 0.3700           | 0.9882             |
| 0.4100         | 0.8525             | 0.4200           | 0.9978             |
| 0.5100         | 0.9226             | 0.5300           | 0.9996             |
| 0.7200         | 0.9966             | 0.7300           | 1.0016             |
| 0.9100         | 1.0001             | 0.9400           | 1.0020             |
| 1.1100         | 1.0008             | 1.1500           | 1.0009             |
| 1.3000         | 0.9999             | 1.3500           | 0.9984             |
| 1.5300         | 1.0006             | 1.5500           | 1.0015             |
| 1.7400         | 1.0006             | 1.7500           | 1.0016             |
| 1.9400         | 0.9998             | 1.9500           | 1.0024             |
| 2.1400         | 0.9997             | 2.1600           | 1.0023             |
| 2.3500         | 1.0008             | 2.3700           | 1.0025             |
| 2.5500         | 1.0012             | 2.5800           | 1.0014             |

Flight 24 Test point 16

Sweep, deg = 20.0 Mach = 0.71 hp, ft = 20000. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 342.5 Rrho = 3006000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4309                     | 0.1389                      | 0.0567                  | 0.4 x/c          |
| Outboard station rake | 0.3262                     | 0.1173                      | 0.0426                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2857             | 0.0400           | 0.3232             |
| 0.0500         | 0.3298             | 0.0700           | 0.3791             |
| 0.1100         | 0.5810             | 0.1200           | 0.6467             |
| 0.1700         | 0.7119             | 0.1800           | 0.7840             |
| 0.2200         | 0.7877             | 0.2100           | 0.8617             |
| 0.2700         | 0.8517             | 0.2700           | 0.9378             |
| 0.3200         | 0.9072             | 0.3100           | 0.9831             |
| 0.3600         | 0.9493             | 0.3700           | 0.9981             |
| 0.4100         | 0.9812             | 0.4200           | 0.9994             |
| 0.5100         | 1.0004             | 0.5300           | 1.0010             |
| 0.7200         | 1.0005             | 0.7300           | 1.0023             |
| 0.9100         | 1.0005             | 0.9400           | 1.0019             |
| 1.1100         | 1.0025             | 1.1500           | 1.0004             |
| 1.3000         | 1.0022             | 1.3500           | 0.9971             |
| 1.5300         | 1.0031             | 1.5500           | 1.0024             |
| 1.7400         | 1.0028             | 1.7500           | 1.0038             |
| 1.9400         | 1.0012             | 1.9500           | 1.0031             |
| 2.1400         | 1.0009             | 2.1600           | 1.0012             |
| 2.3500         | 1.0025             | 2.3700           | 1.0034             |
| 2.5500         | 1.0023             | 2.5800           | 1.0029             |



Flight 24 Test point 17

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 19900. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 334.1 Rrho = 2966000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4676                     | 0.1604                      | 0.0664                  | 0.4 x/c          |
| Outboard station rake | 0.3885                     | 0.1265                      | 0.0510                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.6704             | 0.0400           | 0.7249             |
| 0.0500         | 0.4698             | 0.0700           | 0.4831             |
| 0.1100         | 0.3241             | 0.1200           | 0.4121             |
| 0.1700         | 0.5980             | 0.1800           | 0.6678             |
| 0.2200         | 0.7091             | 0.2100           | 0.7899             |
| 0.2700         | 0.7896             | 0.2700           | 0.8933             |
| 0.3200         | 0.8601             | 0.3100           | 0.9573             |
| 0.3600         | 0.9153             | 0.3700           | 0.9906             |
| 0.4100         | 0.9565             | 0.4200           | 0.9951             |
| 0.5100         | 0.9965             | 0.5300           | 0.9975             |
| 0.7200         | 1.0018             | 0.7300           | 1.0013             |
| 0.9100         | 1.0033             | 0.9400           | 1.0019             |
| 1.1100         | 1.0056             | 1.1500           | 0.9983             |
| 1.3000         | 1.0045             | 1.3500           | 0.9983             |
| 1.5300         | 1.0062             | 1.5500           | 1.0024             |
| 1.7400         | 1.0057             | 1.7500           | 1.0023             |
| 1.9400         | 1.0056             | 1.9500           | 1.0041             |
| 2.1400         | 1.0037             | 2.1600           | 1.0019             |
| 2.3500         | 1.0057             | 2.3700           | 1.0035             |
| 2.5500         | 1.0050             | 2.5800           | 1.0028             |

Flight 24 Test point 18

Sweep, deg = 20.0 Mach = 0.71 hp, ft = 20500. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 330.7 Rrho = 2937000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4249                     | 0.1334                      | 0.0542                  | 0.4 x/c          |
| Outboard station rake | 0.3202                     | 0.1132                      | 0.0407                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2419             | 0.0400           | 0.2972             |
| 0.0500         | 0.3600             | 0.0700           | 0.4073             |
| 0.1100         | 0.5961             | 0.1200           | 0.6638             |
| 0.1700         | 0.7263             | 0.1800           | 0.7983             |
| 0.2200         | 0.8035             | 0.2100           | 0.8767             |
| 0.2700         | 0.8672             | 0.2700           | 0.9520             |
| 0.3200         | 0.9196             | 0.3100           | 0.9907             |
| 0.3600         | 0.9605             | 0.3700           | 0.9988             |
| 0.4100         | 0.9854             | 0.4200           | 1.0000             |
| 0.5100         | 0.9991             | 0.5300           | 1.0000             |
| 0.7200         | 0.9994             | 0.7300           | 0.9997             |
| 0.9100         | 1.0000             | 0.9400           | 1.0028             |
| 1.1100         | 1.0016             | 1.1500           | 0.9989             |
| 1.3000         | 1.0013             | 1.3500           | 0.9980             |
| 1.5000         | 1.0019             | 1.5500           | 1.0010             |
| 1.7400         | 1.0034             | 1.7500           | 1.0025             |
| 1.9400         | 1.0018             | 1.9500           | 1.0024             |
| 2.1400         | 1.0014             | 2.1600           | 1.0009             |
| 2.3500         | 1.0028             | 2.3700           | 1.0024             |
| 2.5500         | 1.0020             | 2.5800           | 1.0018             |

Flight 24 Test point 19

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 19900. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.6 QBAR, lb/ft<sup>2</sup> = 338.8 Rrho = 3008000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | 0.4590                        | 0.1534                         | 0.0611                     | 0.4 x/c             |
| Outboard station rake | 0.3909                        | 0.1368                         | 0.0478                     | 0.4 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.3610 | 0.0400           | 0.4674 |
| 0.0500         | 0.2306 | 0.0700           | 0.1659 |
| 0.1100         | 0.5384 | 0.1200           | 0.5670 |
| 0.1700         | 0.6820 | 0.1800           | 0.7210 |
| 0.2200         | 0.7547 | 0.2100           | 0.8047 |
| 0.2700         | 0.8182 | 0.2700           | 0.8902 |
| 0.3200         | 0.8782 | 0.3100           | 0.9507 |
| 0.3600         | 0.9282 | 0.3700           | 0.9881 |
| 0.4100         | 0.9660 | 0.4200           | 0.9973 |
| 0.5100         | 0.9988 | 0.5300           | 1.0000 |
| 0.7200         | 1.0008 | 0.7300           | 1.0019 |
| 0.9100         | 1.0029 | 0.9400           | 1.0030 |
| 1.1100         | 1.0040 | 1.1500           | 1.0004 |
| 1.3000         | 1.0041 | 1.3500           | 0.9965 |
| 1.5300         | 1.0056 | 1.5500           | 1.0020 |
| 1.7400         | 1.0037 | 1.7500           | 1.0017 |
| 1.9400         | 1.0030 | 1.9500           | 1.0031 |
| 2.1400         | 1.0027 | 2.1600           | 1.0014 |
| 2.3500         | 1.0043 | 2.3700           | 1.0025 |
| 2.5500         | 1.0042 | 2.5800           | 1.0019 |

Flight 24 Test point 20

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 335.6 Rrho = 2986000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5411                     | 0.1415                      | 0.0701                  | 0.4 x/c          |
| Outboard station rake | 0.3779                     | 0.1049                      | 0.0463                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4713             | 0.0400           | 0.4837             |
| 0.0500         | 0.5469             | 0.0700           | 0.5936             |
| 0.1100         | 0.6340             | 0.1200           | 0.7018             |
| 0.1700         | 0.7045             | 0.1800           | 0.7858             |
| 0.2200         | 0.7535             | 0.2100           | 0.8488             |
| 0.2700         | 0.8029             | 0.2700           | 0.9125             |
| 0.3200         | 0.8480             | 0.3100           | 0.9581             |
| 0.3600         | 0.8925             | 0.3700           | 0.9891             |
| 0.4100         | 0.9306             | 0.4200           | 0.9990             |
| 0.5100         | 0.9848             | 0.5300           | 1.0024             |
| 0.7200         | 1.0007             | 0.7300           | 1.0015             |
| 0.9100         | 1.0002             | 0.9400           | 1.0029             |
| 1.1100         | 1.0016             | 1.1500           | 0.9991             |
| 1.3000         | 1.0018             | 1.3500           | 0.9974             |
| 1.5300         | 1.0022             | 1.5500           | 1.0014             |
| 1.7400         | 1.0018             | 1.7500           | 1.0012             |
| 1.9400         | 1.0021             | 1.9500           | 1.0029             |
| 2.1400         | 1.0014             | 2.1600           | 0.9998             |
| 2.3500         | 1.0017             | 2.3700           | 1.0011             |
| 2.5500         | 1.0018             | 2.5800           | 1.0022             |

Flight 24 Test point 21

Sweep, deg = 25.2 Mach = 0.70 hp, ft = 20500. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 329.6 Rho = 2935000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5622                     | 0.1526                      | 0.0755                  | 0.4 x/c          |
| Outboard station rake | 0.4198                     | 0.1200                      | 0.0534                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4639             | 0.0400           | 0.4552             |
| 0.0500         | 0.5338             | 0.0700           | 0.5620             |
| 0.1100         | 0.6194             | 0.1200           | 0.6687             |
| 0.1700         | 0.6936             | 0.1800           | 0.7494             |
| 0.2200         | 0.7360             | 0.2100           | 0.8058             |
| 0.2700         | 0.7832             | 0.2700           | 0.8713             |
| 0.3200         | 0.8270             | 0.3100           | 0.9244             |
| 0.3600         | 0.8667             | 0.3700           | 0.9678             |
| 0.4100         | 0.9047             | 0.4200           | 0.9921             |
| 0.5100         | 0.9696             | 0.5300           | 0.9998             |
| 0.7200         | 1.0029             | 0.7300           | 1.0005             |
| 0.9100         | 1.0016             | 0.9400           | 1.0026             |
| 1.1100         | 1.0039             | 1.1500           | 0.9992             |
| 1.3000         | 1.0026             | 1.3500           | 0.9951             |
| 1.5300         | 1.0028             | 1.5500           | 1.0001             |
| 1.7400         | 1.0038             | 1.7500           | 1.0008             |
| 1.9400         | 1.0024             | 1.9500           | 1.0036             |
| 2.1400         | 1.0023             | 2.1600           | 1.0016             |
| 2.3500         | 1.0044             | 2.3700           | 1.0016             |
| 2.5500         | 1.0037             | 2.5800           | 1.0030             |

Flight 24 Test point 22

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 19800. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 337.7 Rrho = 3001000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | 0.4841                        | 0.1317                         | 0.0641                     | 0.4 x/c             |
| Outboard station rake | 0.3801                        | 0.1091                         | 0.0475                     | 0.4 x/c             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4668             | 0.0400           | 0.4493             |
| 0.0500         | 0.5482             | 0.0700           | 0.5738             |
| 0.1100         | 0.6440             | 0.1200           | 0.6923             |
| 0.1700         | 0.7231             | 0.1800           | 0.7798             |
| 0.2200         | 0.7747             | 0.2100           | 0.8412             |
| 0.2700         | 0.8255             | 0.2700           | 0.9049             |
| 0.3200         | 0.8712             | 0.3100           | 0.9517             |
| 0.3600         | 0.9139             | 0.3700           | 0.9879             |
| 0.4100         | 0.9507             | 0.4200           | 0.9977             |
| 0.5100         | 0.9912             | 0.5300           | 1.0026             |
| 0.7200         | 0.9992             | 0.7300           | 1.0012             |
| 0.9100         | 1.0003             | 0.9400           | 1.0036             |
| 1.1100         | 1.0024             | 1.1500           | 0.9990             |
| 1.3000         | 1.0001             | 1.3500           | 0.9977             |
| 1.5300         | 1.0019             | 1.5500           | 1.0020             |
| 1.7400         | 1.0014             | 1.7500           | 1.0017             |
| 1.9400         | 1.0004             | 1.9500           | 1.0035             |
| 2.1400         | 0.9995             | 2.1600           | 1.0009             |
| 2.3500         | 1.0022             | 2.3700           | 1.0007             |
| 2.5500         | 1.0013             | 2.5800           | 1.0014             |

Flight 24 Test point 23

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 331.6 Rrho = 2966000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7362                     | 0.1666                      | 0.0887                  | 0.4 x/c          |
| Outboard station rake | 0.5074                     | 0.1316                      | 0.0640                  | 0.4 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5497 | 0.0400           | 0.5641 |
| 0.0500         | 0.5846 | 0.0700           | 0.6096 |
| 0.1100         | 0.6409 | 0.1200           | 0.6746 |
| 0.1700         | 0.6900 | 0.1800           | 0.7322 |
| 0.2200         | 0.7232 | 0.2100           | 0.7739 |
| 0.2700         | 0.7660 | 0.2700           | 0.8245 |
| 0.3200         | 0.7999 | 0.3100           | 0.8692 |
| 0.3600         | 0.8364 | 0.3700           | 0.9100 |
| 0.4100         | 0.8663 | 0.4200           | 0.9451 |
| 0.5100         | 0.9245 | 0.5300           | 0.9984 |
| 0.7200         | 0.9953 | 0.7300           | 1.0056 |
| 0.9100         | 0.9984 | 0.9400           | 1.0083 |
| 1.1100         | 1.0003 | 1.1500           | 1.0044 |
| 1.3000         | 0.9999 | 1.3500           | 1.0012 |
| 1.5300         | 1.0014 | 1.5500           | 1.0055 |
| 1.7400         | 1.0018 | 1.7500           | 1.0059 |
| 1.9400         | 1.0004 | 1.9500           | 1.0071 |
| 2.1400         | 1.0007 | 2.1600           | 1.0056 |
| 2.3500         | 1.0008 | 2.3700           | 1.0065 |
| 2.5500         | 1.0011 | 2.5800           | 1.0065 |

Flight 24 Test point 24

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 19800. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 337.1 Rrho = 3004000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7362                     | 0.1638                      | 0.0974                  | 0.4 x/c          |
| Outboard station rake | 0.7211                     | 0.1322                      | 0.0662                  | 0.4 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5483 | 0.0400           | 0.5717 |
| 0.0500         | 0.5854 | 0.0700           | 0.6157 |
| 0.1100         | 0.6420 | 0.1200           | 0.6825 |
| 0.1700         | 0.6947 | 0.1800           | 0.7370 |
| 0.2200         | 0.7306 | 0.2100           | 0.7733 |
| 0.2700         | 0.7693 | 0.2700           | 0.8258 |
| 0.3200         | 0.8051 | 0.3100           | 0.8667 |
| 0.3600         | 0.8406 | 0.3700           | 0.9051 |
| 0.4100         | 0.8691 | 0.4200           | 0.9411 |
| 0.5100         | 0.9289 | 0.5300           | 0.9912 |
| 0.7200         | 0.9955 | 0.7300           | 1.0003 |
| 0.9100         | 0.9989 | 0.9400           | 1.0023 |
| 1.1100         | 1.0011 | 1.1500           | 0.9988 |
| 1.3000         | 0.9996 | 1.3500           | 0.9963 |
| 1.5300         | 1.0018 | 1.5500           | 1.0028 |
| 1.7400         | 1.0013 | 1.7500           | 1.0011 |
| 1.9400         | 0.9991 | 1.9500           | 1.0026 |
| 2.1400         | 1.0003 | 2.1600           | 1.0006 |
| 2.3500         | 1.0010 | 2.3700           | 1.0020 |
| 2.5500         | 1.0012 | 2.5800           | 1.0020 |



Flight 24 Test point 25

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 19800. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 336.1 Rrho = 3006000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7381                     | 0.1713                      | 0.0905                  | 0.4 x/c          |
| Outboard station rake | 0.5549                     | 0.1380                      | 0.0682                  | 0.4 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5420 | 0.0400           | 0.5544 |
| 0.0500         | 0.5735 | 0.0700           | 0.6030 |
| 0.1100         | 0.6325 | 0.1200           | 0.6688 |
| 0.1700         | 0.6850 | 0.1800           | 0.7215 |
| 0.2200         | 0.7196 | 0.2100           | 0.7608 |
| 0.2700         | 0.7589 | 0.2700           | 0.8094 |
| 0.3200         | 0.7900 | 0.3100           | 0.8537 |
| 0.3600         | 0.8279 | 0.3700           | 0.8963 |
| 0.4100         | 0.8603 | 0.4200           | 0.9346 |
| 0.5100         | 0.9179 | 0.5300           | 0.9889 |
| 0.7200         | 0.9944 | 0.7300           | 1.0019 |
| 0.9100         | 0.9984 | 0.9400           | 1.0025 |
| 1.1100         | 1.0000 | 1.1500           | 0.9989 |
| 1.3000         | 0.9996 | 1.3500           | 0.9960 |
| 1.5300         | 1.0025 | 1.5500           | 1.0021 |
| 1.7400         | 1.0019 | 1.7500           | 1.0015 |
| 1.9400         | 1.0000 | 1.9500           | 1.0025 |
| 2.1400         | 1.0001 | 2.1600           | 1.0007 |
| 2.3500         | 1.0016 | 2.3700           | 1.0024 |
| 2.5500         | 1.0015 | 2.5800           | 1.0026 |

Flight 24 Test point 26

Sweep, deg = 30.0 Mach = 0.75 hp, ft = 19900. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 385.3 Rnpu = 3231000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7369                     | 0.1842                      | 0.0937                  | 0.4 x/c          |
| Outboard station rake | 0.5635                     | 0.1529                      | 0.0727                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5177             | 0.0400           | 0.5157             |
| 0.0500         | 0.5559             | 0.0700           | 0.5704             |
| 0.1100         | 0.6104             | 0.1200           | 0.6362             |
| 0.1700         | 0.6644             | 0.1800           | 0.6960             |
| 0.2200         | 0.6987             | 0.2100           | 0.7365             |
| 0.2700         | 0.7368             | 0.2700           | 0.7883             |
| 0.3200         | 0.7719             | 0.3100           | 0.8336             |
| 0.3600         | 0.8104             | 0.3700           | 0.8783             |
| 0.4100         | 0.8473             | 0.4200           | 0.9179             |
| 0.5100         | 0.9131             | 0.5300           | 0.9823             |
| 0.7200         | 0.9943             | 0.7300           | 1.0031             |
| 0.9100         | 0.9988             | 0.9400           | 1.0034             |
| 1.1100         | 1.0013             | 1.1500           | 1.0010             |
| 1.3000         | 1.0002             | 1.3500           | 0.9979             |
| 1.5300         | 1.0018             | 1.5500           | 1.0016             |
| 1.7400         | 1.0006             | 1.7500           | 1.0011             |
| 1.9400         | 1.0015             | 1.9500           | 1.0029             |
| 2.1400         | 1.0003             | 2.1600           | 1.0015             |
| 2.3500         | 1.0004             | 2.3700           | 1.0026             |
| 2.5500         | 1.0008             | 2.5800           | 1.0028             |

Flight 24 Test point 27

Sweep, deg = 30.0 Mach = 0.75 hp, ft = 20100. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 379.6 Rrho = 3200000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7405                     | 0.1907                      | 0.0962                  | 0.4 x/c          |
| Outboard station rake | 0.5705                     | 0.1587                      | 0.0749                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5072             | 0.0400           | 0.5078             |
| 0.0500         | 0.5400             | 0.0700           | 0.5606             |
| 0.1100         | 0.6007             | 0.1200           | 0.6263             |
| 0.1700         | 0.6532             | 0.1800           | 0.6834             |
| 0.2200         | 0.6917             | 0.2100           | 0.7245             |
| 0.2700         | 0.7300             | 0.2700           | 0.7780             |
| 0.3200         | 0.7665             | 0.3100           | 0.8237             |
| 0.3600         | 0.8056             | 0.3700           | 0.8677             |
| 0.4100         | 0.8384             | 0.4200           | 0.9112             |
| 0.5100         | 0.9031             | 0.5300           | 0.9779             |
| 0.7200         | 0.9924             | 0.7300           | 1.0013             |
| 0.9100         | 0.9996             | 0.9400           | 1.0038             |
| 1.1100         | 1.0007             | 1.1500           | 1.0013             |
| 1.3000         | 1.0008             | 1.3500           | 0.9988             |
| 1.5300         | 1.0021             | 1.5500           | 1.0033             |
| 1.7400         | 1.0012             | 1.7500           | 1.0015             |
| 1.9400         | 1.0016             | 1.9500           | 1.0037             |
| 2.1400         | 0.9995             | 2.1600           | 1.0016             |
| 2.3500         | 1.0008             | 2.3700           | 1.0037             |
| 2.5500         | 1.0013             | 2.5800           | 1.0031             |

Flight 24 Test point 28

Sweep, deg = 25.0 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 382.9 Rnpu = 3224000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7282                     | 0.1930                      | 0.0928                  | 0.4 x/c          |
| Outboard station rake | 0.5475                     | 0.1698                      | 0.0714                  | 0.4 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.4003 | 0.0400           | 0.2900 |
| 0.0500         | 0.4762 | 0.0700           | 0.4485 |
| 0.1100         | 0.5729 | 0.1200           | 0.5790 |
| 0.1700         | 0.6378 | 0.1800           | 0.6618 |
| 0.2200         | 0.6819 | 0.2100           | 0.7101 |
| 0.2700         | 0.7264 | 0.2700           | 0.7755 |
| 0.3200         | 0.7689 | 0.3100           | 0.8273 |
| 0.3600         | 0.8108 | 0.3700           | 0.8816 |
| 0.4100         | 0.8508 | 0.4200           | 0.9288 |
| 0.5100         | 0.9223 | 0.5300           | 0.9910 |
| 0.7200         | 0.9974 | 0.7300           | 1.0012 |
| 0.9100         | 0.9997 | 0.9400           | 1.0021 |
| 1.1100         | 1.0005 | 1.1500           | 0.9990 |
| 1.3000         | 1.0007 | 1.3500           | 0.9979 |
| 1.5300         | 1.0009 | 1.5500           | 1.0015 |
| 1.7400         | 1.0006 | 1.7500           | 1.0008 |
| 1.9400         | 1.0004 | 1.9500           | 1.0024 |
| 2.1400         | 0.9987 | 2.1600           | 1.0011 |
| 2.3500         | 1.0002 | 2.3700           | 1.0011 |
| 2.5500         | 1.0009 | 2.5800           | 1.0020 |

Flight 24 Test point 29

Sweep, deg = 25.0 Mach = 0.76 hp, ft = 20000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 387.9 Rnpu = 3244000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7246                     | 0.1974                      | 0.0941                  | 0.4 x/c          |
| Outboard station rake | 0.5497                     | 0.1756                      | 0.0727                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3906             | 0.0400           | 0.2743             |
| 0.0500         | 0.4713             | 0.0700           | 0.4296             |
| 0.1100         | 0.5616             | 0.1200           | 0.5636             |
| 0.1700         | 0.6335             | 0.1800           | 0.6485             |
| 0.2200         | 0.6753             | 0.2100           | 0.6995             |
| 0.2700         | 0.7224             | 0.2700           | 0.7638             |
| 0.3200         | 0.7618             | 0.3100           | 0.8178             |
| 0.3600         | 0.8057             | 0.3700           | 0.8744             |
| 0.4100         | 0.8450             | 0.4200           | 0.9231             |
| 0.5100         | 0.9160             | 0.5300           | 0.9892             |
| 0.7200         | 0.9984             | 0.7300           | 1.0018             |
| 0.9100         | 0.9988             | 0.9400           | 1.0024             |
| 1.1100         | 1.0003             | 1.1500           | 1.0001             |
| 1.3000         | 1.0003             | 1.3500           | 0.9969             |
| 1.5300         | 1.0000             | 1.5500           | 1.0011             |
| 1.7400         | 1.0014             | 1.7500           | 1.0010             |
| 1.9400         | 0.9992             | 1.9500           | 1.0025             |
| 2.1400         | 0.9997             | 2.1600           | 1.0017             |
| 2.3500         | 1.0010             | 2.3700           | 1.0019             |
| 2.5500         | 1.0010             | 2.5800           | 1.0015             |

Flight 24 Test point 30

Sweep, deg = 25.0 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 378.6 Rrho = 3186000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7285                     | 0.1926                      | 0.0918                  | 0.4 x/c          |
| Outboard station rake | 0.4598                     | 0.1539                      | 0.0622                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3907             | 0.0400           | 0.2822             |
| 0.0500         | 0.4719             | 0.0700           | 0.4541             |
| 0.1100         | 0.5675             | 0.1200           | 0.5940             |
| 0.1700         | 0.6366             | 0.1800           | 0.6804             |
| 0.2200         | 0.6819             | 0.2100           | 0.7384             |
| 0.2700         | 0.7283             | 0.2700           | 0.8077             |
| 0.3200         | 0.7670             | 0.3100           | 0.8660             |
| 0.3600         | 0.8134             | 0.3700           | 0.9254             |
| 0.4100         | 0.8512             | 0.4200           | 0.9682             |
| 0.5100         | 0.9289             | 0.5300           | 1.0019             |
| 0.7200         | 0.9976             | 0.7300           | 1.0045             |
| 0.9100         | 0.9989             | 0.9400           | 1.0039             |
| 1.1100         | 1.0007             | 1.1500           | 1.0024             |
| 1.3000         | 0.9993             | 1.3500           | 0.9988             |
| 1.5300         | 1.0013             | 1.5500           | 1.0034             |
| 1.7400         | 1.0020             | 1.7500           | 1.0026             |
| 1.9400         | 1.0003             | 1.9500           | 1.0041             |
| 2.1400         | 0.9994             | 2.1600           | 1.0016             |
| 2.3500         | 1.0003             | 2.3700           | 1.0043             |
| 2.5500         | 1.0002             | 2.5800           | 1.0043             |

Flight 24 Test point 31

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 19900. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 380.4 Rrho = 3204000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | 0.4565                        | 0.1580                         | 0.0617                     | 0.4 x/c             |
| Outboard station rake | 0.3383                        | 0.1267                         | 0.0458                     | 0.4 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.3375 | 0.0400           | 0.3966 |
| 0.0500         | 0.2256 | 0.0700           | 0.2965 |
| 0.1100         | 0.5259 | 0.1200           | 0.6042 |
| 0.1700         | 0.6667 | 0.1800           | 0.7470 |
| 0.2200         | 0.7458 | 0.2100           | 0.8325 |
| 0.2700         | 0.8142 | 0.2700           | 0.9135 |
| 0.3200         | 0.8725 | 0.3100           | 0.9687 |
| 0.3600         | 0.9210 | 0.3700           | 0.9972 |
| 0.4100         | 0.9635 | 0.4200           | 1.0008 |
| 0.5100         | 1.0002 | 0.5300           | 1.0028 |
| 0.7200         | 1.0027 | 0.7300           | 1.0030 |
| 0.9100         | 1.0020 | 0.9400           | 1.0033 |
| 1.1100         | 1.0043 | 1.1500           | 1.0019 |
| 1.3000         | 1.0030 | 1.3500           | 1.0004 |
| 1.5300         | 1.0048 | 1.5500           | 1.0038 |
| 1.7400         | 1.0041 | 1.7500           | 1.0041 |
| 1.9400         | 1.0041 | 1.9500           | 1.0042 |
| 2.1400         | 1.0028 | 2.1600           | 1.0017 |
| 2.3500         | 1.0038 | 2.3700           | 1.0036 |
| 2.5500         | 1.0047 | 2.5800           | 1.0044 |

Flight 24 Test point 32

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 19900. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 387.5 Rrho = 3243000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4375                     | 0.1472                      | 0.0616                  | 0.4 x/c          |
| Outboard station rake | 0.3888                     | 0.1369                      | 0.0522                  | 0.4 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.6447 | 0.0400           | 0.7485 |
| 0.0500         | 0.4183 | 0.0700           | 0.5516 |
| 0.1100         | 0.3998 | 0.1200           | 0.3016 |
| 0.1700         | 0.6385 | 0.1800           | 0.6135 |
| 0.2200         | 0.7440 | 0.2100           | 0.7471 |
| 0.2700         | 0.8221 | 0.2700           | 0.8629 |
| 0.3200         | 0.8942 | 0.3100           | 0.9395 |
| 0.3600         | 0.9465 | 0.3700           | 0.9865 |
| 0.4100         | 0.9819 | 0.4200           | 0.9977 |
| 0.5100         | 1.0012 | 0.5300           | 0.9989 |
| 0.7200         | 1.0007 | 0.7300           | 1.0017 |
| 0.9100         | 1.0006 | 0.9400           | 1.0031 |
| 1.1100         | 1.0024 | 1.1500           | 1.0000 |
| 1.3000         | 1.0022 | 1.3500           | 0.9982 |
| 1.5300         | 1.0028 | 1.5500           | 1.0017 |
| 1.7400         | 1.0036 | 1.7500           | 1.0019 |
| 1.9400         | 1.0022 | 1.9500           | 1.0025 |
| 2.1400         | 1.0008 | 2.1600           | 1.0015 |
| 2.3500         | 1.0012 | 2.3700           | 1.0030 |
| 2.5500         | 1.0004 | 2.5800           | 1.0033 |



Flight 24 Test point 33

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 19900. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 385.2 Rnpu = 3230000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4388                     | 0.1380                      | 0.0551                  | 0.4 x/c          |
| Outboard station rake | 0.3339                     | 0.1239                      | 0.0449                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1616             | 0.0400           | 0.3873             |
| 0.0500         | 0.3869             | 0.0700           | 0.3144             |
| 0.1100         | 0.6030             | 0.1200           | 0.6162             |
| 0.1700         | 0.7259             | 0.1800           | 0.7581             |
| 0.2200         | 0.7941             | 0.2100           | 0.8401             |
| 0.2700         | 0.8543             | 0.2700           | 0.9215             |
| 0.3200         | 0.9066             | 0.3100           | 0.9734             |
| 0.3600         | 0.9479             | 0.3700           | 0.9954             |
| 0.4100         | 0.9759             | 0.4200           | 1.0008             |
| 0.5100         | 0.9996             | 0.5300           | 1.0015             |
| 0.7200         | 1.0021             | 0.7300           | 1.0029             |
| 0.9100         | 1.0012             | 0.9400           | 1.0035             |
| 1.1100         | 1.0016             | 1.1500           | 1.0010             |
| 1.3000         | 1.0007             | 1.3500           | 0.9985             |
| 1.5300         | 1.0033             | 1.5500           | 1.0029             |
| 1.7400         | 1.0036             | 1.7500           | 1.0035             |
| 1.9400         | 1.0025             | 1.9500           | 1.0044             |
| 2.1400         | 1.0030             | 2.1600           | 1.0035             |
| 2.3500         | 1.0038             | 2.3700           | 1.0041             |
| 2.5500         | 1.0028             | 2.5800           | 1.0045             |

Flight 24 Test point 34

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 20100. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 384.2 Rrho = 3220000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5269                     | 0.1641                      | 0.0704                  | 0.4 x/c          |
| Outboard station rake | 0.3915                     | 0.1451                      | 0.0544                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2039             | 0.0400           | 0.5460             |
| 0.0500         | 0.4119             | 0.0700           | 0.2725             |
| 0.1100         | 0.5732             | 0.1200           | 0.4729             |
| 0.1700         | 0.6691             | 0.1800           | 0.6563             |
| 0.2200         | 0.7249             | 0.2100           | 0.7558             |
| 0.2700         | 0.7788             | 0.2700           | 0.8530             |
| 0.3200         | 0.8317             | 0.3100           | 0.9281             |
| 0.3600         | 0.8818             | 0.3700           | 0.9821             |
| 0.4100         | 0.9260             | 0.4200           | 1.0006             |
| 0.5100         | 0.9901             | 0.5300           | 1.0046             |
| 0.7200         | 1.0063             | 0.7300           | 1.0049             |
| 0.9100         | 1.0059             | 0.9400           | 1.0045             |
| 1.1100         | 1.0005             | 1.1500           | 0.9988             |
| 1.3000         | 0.9994             | 1.3500           | 0.9967             |
| 1.5300         | 0.9973             | 1.5500           | 1.0029             |
| 1.7400         | 0.9976             | 1.7500           | 1.0019             |
| 1.9400         | 0.9990             | 1.9500           | 1.0016             |
| 2.1400         | 1.0000             | 2.1600           | 0.9999             |
| 2.3500         | 1.0014             | 2.3700           | 1.0014             |
| 2.5500         | 1.0019             | 2.5800           | 1.0002             |

Flight 24 Test point 35

Sweep, deg = 20.0 Mach = 0.81 hp, ft = 20000. Angle of attack, deg = -0.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 440.8 Rrho = 3478000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.8033                     | 0.2825                      | 0.0958                  | 0.4 x/c          |
| Outboard station rake | 0.7214                     | 0.2442                      | 0.0832                  | 0.4 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5074 | 0.0400           | 0.5627 |
| 0.0500         | 0.4680 | 0.0700           | 0.5110 |
| 0.1100         | 0.2947 | 0.1200           | 0.3102 |
| 0.1700         | 0.2585 | 0.1800           | 0.2563 |
| 0.2200         | 0.4298 | 0.2100           | 0.4458 |
| 0.2700         | 0.5410 | 0.2700           | 0.5895 |
| 0.3200         | 0.6369 | 0.3100           | 0.6899 |
| 0.3600         | 0.7167 | 0.3700           | 0.7847 |
| 0.4100         | 0.7869 | 0.4200           | 0.8630 |
| 0.5100         | 0.8947 | 0.5300           | 0.9760 |
| 0.7200         | 0.9991 | 0.7300           | 1.0009 |
| 0.9100         | 1.0010 | 0.9400           | 1.0028 |
| 1.1100         | 1.0017 | 1.1500           | 1.0006 |
| 1.3000         | 1.0019 | 1.3500           | 0.9996 |
| 1.5300         | 1.0018 | 1.5500           | 1.0023 |
| 1.7400         | 1.0021 | 1.7500           | 1.0010 |
| 1.9400         | 1.0011 | 1.9500           | 1.0006 |
| 2.1400         | 0.9997 | 2.1600           | 0.9984 |
| 2.3500         | 0.9963 | 2.3700           | 0.9971 |
| 2.5500         | 0.9943 | 2.5800           | 0.9968 |

Flight 24 Test point 36

Sweep, deg = 20.0 Mach = 0.81 hp, ft = 20000. Angle of attack, deg = -0.1  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 444.4 Rnpu = 3475000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6923                     | 0.2373                      | 0.0795                  | 0.4 x/c          |
| Outboard station rake | 0.5318                     | 0.2077                      | 0.0727                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.6289             | 0.0400           | 0.6952             |
| 0.0500         | 0.6224             | 0.0700           | 0.6749             |
| 0.1100         | 0.4903             | 0.1200           | 0.5044             |
| 0.1700         | 0.2815             | 0.1800           | 0.2672             |
| 0.2200         | 0.2902             | 0.2100           | 0.3353             |
| 0.2700         | 0.4993             | 0.2700           | 0.5633             |
| 0.3200         | 0.6491             | 0.3100           | 0.7173             |
| 0.3600         | 0.7683             | 0.3700           | 0.8515             |
| 0.4100         | 0.8766             | 0.4200           | 0.9434             |
| 0.5100         | 0.9893             | 0.5300           | 0.9991             |
| 0.7200         | 1.0014             | 0.7300           | 1.0027             |
| 0.9100         | 1.0024             | 0.9400           | 1.0035             |
| 1.1100         | 1.0037             | 1.1500           | 0.9993             |
| 1.3000         | 1.0017             | 1.3500           | 0.9994             |
| 1.5300         | 1.0022             | 1.5500           | 1.0018             |
| 1.7400         | 1.0017             | 1.7500           | 1.0010             |
| 1.9400         | 1.0009             | 1.9500           | 1.0000             |
| 2.1400         | 0.9951             | 2.1600           | 0.9978             |
| 2.3500         | 0.9953             | 2.3700           | 0.9966             |
| 2.5500         | 0.9955             | 2.5800           | 0.9988             |

Flight 24 Test point 37

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20300. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 432.3 Rrho = 3406000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7144                     | 0.2950                      | 0.0917                  | 0.4 x/c          |
| Outboard station rake | 0.5345                     | 0.2322                      | 0.0745                  | 0.4 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.4473 | 0.0400           | 0.5339 |
| 0.0500         | 0.4165 | 0.0700           | 0.4713 |
| 0.1100         | 0.2743 | 0.1200           | 0.2441 |
| 0.1700         | 0.2012 | 0.1800           | 0.3064 |
| 0.2200         | 0.3768 | 0.2100           | 0.4684 |
| 0.2700         | 0.4983 | 0.2700           | 0.6160 |
| 0.3200         | 0.6053 | 0.3100           | 0.7250 |
| 0.3600         | 0.6936 | 0.3700           | 0.8290 |
| 0.4100         | 0.7772 | 0.4200           | 0.9080 |
| 0.5100         | 0.9071 | 0.5300           | 0.9966 |
| 0.7200         | 1.0023 | 0.7300           | 1.0038 |
| 0.9100         | 1.0031 | 0.9400           | 1.0048 |
| 1.1100         | 1.0039 | 1.1500           | 1.0030 |
| 1.3000         | 1.0036 | 1.3500           | 1.0016 |
| 1.5300         | 1.0036 | 1.5500           | 1.0025 |
| 1.7400         | 1.0030 | 1.7500           | 1.0019 |
| 1.9400         | 1.0016 | 1.9500           | 0.9986 |
| 2.1400         | 0.9976 | 2.1600           | 0.9960 |
| 2.3500         | 0.9928 | 2.3700           | 0.9969 |
| 2.5500         | 0.9884 | 2.5800           | 0.9943 |

Flight 24 Test point 38

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20200. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 435.0 Rrho = 3417000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | 0.8405                        | 0.4170                         | 0.0863                     | 0.4 x/c             |
| Outboard station rake | 0.4424                        | 0.2073                         | 0.0638                     | 0.4 x/c             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.0614             | 0.0400           | 0.5445             |
| 0.0500         | 0.0909             | 0.0700           | 0.4875             |
| 0.1100         | 0.0935             | 0.1200           | 0.2360             |
| 0.1700         | 0.0732             | 0.1800           | 0.3456             |
| 0.2200         | 0.1539             | 0.2100           | 0.5186             |
| 0.2700         | 0.2477             | 0.2700           | 0.6764             |
| 0.3200         | 0.3397             | 0.3100           | 0.8012             |
| 0.3600         | 0.4466             | 0.3700           | 0.9092             |
| 0.4100         | 0.5489             | 0.4200           | 0.9727             |
| 0.5100         | 0.7460             | 0.5300           | 1.0073             |
| 0.7200         | 0.9929             | 0.7300           | 1.0082             |
| 0.9100         | 1.0037             | 0.9400           | 1.0092             |
| 1.1100         | 1.0036             | 1.1500           | 1.0068             |
| 1.3000         | 1.0029             | 1.3500           | 1.0048             |
| 1.5300         | 1.0041             | 1.5500           | 1.0070             |
| 1.7400         | 1.0039             | 1.7500           | 1.0043             |
| 1.9400         | 1.0017             | 1.9500           | 0.9973             |
| 2.1400         | 1.0001             | 2.1600           | 0.9949             |
| 2.3500         | 0.9946             | 2.3700           | 0.9940             |
| 2.5500         | 0.9854             | 2.5800           | 0.9936             |

Flight 24 Test point 39

Sweep, deg = 25.3 Mach = 0.81 hp, ft = 20000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 443.4 Rnpu = 3469000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9460                     | 0.2760                      | 0.0966                  | 0.4 x/c          |
| Outboard station rake | 0.7215                     | 0.2366                      | 0.0806                  | 0.4 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.1348 | 0.0400           | 0.4048 |
| 0.0500         | 0.1814 | 0.0700           | 0.2811 |
| 0.1100         | 0.3528 | 0.1200           | 0.2883 |
| 0.1700         | 0.4650 | 0.1800           | 0.4654 |
| 0.2200         | 0.5322 | 0.2100           | 0.5625 |
| 0.2700         | 0.6022 | 0.2700           | 0.6666 |
| 0.3200         | 0.6689 | 0.3100           | 0.7440 |
| 0.3600         | 0.7318 | 0.3700           | 0.8174 |
| 0.4100         | 0.7895 | 0.4200           | 0.8777 |
| 0.5100         | 0.8839 | 0.5300           | 0.9697 |
| 0.7200         | 0.9954 | 0.7300           | 1.0012 |
| 0.9100         | 0.9993 | 0.9400           | 1.0024 |
| 1.1100         | 1.0004 | 1.1500           | 0.9996 |
| 1.3000         | 0.9995 | 1.3500           | 0.9986 |
| 1.5300         | 1.0001 | 1.5500           | 1.0004 |
| 1.7400         | 0.9997 | 1.7500           | 1.0010 |
| 1.9400         | 1.0009 | 1.9500           | 1.0015 |
| 2.1400         | 0.9997 | 2.1600           | 1.0009 |
| 2.3500         | 1.0004 | 2.3700           | 0.9975 |
| 2.5500         | 1.0000 | 2.5800           | 0.9968 |

Flight 24 Test point 40

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 436.4 Rnpu = 3459000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.8681                     | 0.3075                      | 0.0971                  | 0.4 x/c          |
| Outboard station rake | 0.7195                     | 0.2489                      | 0.0817                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2132             | 0.0400           | 0.4173             |
| 0.0500         | 0.1617             | 0.0700           | 0.3286             |
| 0.1100         | 0.2186             | 0.1200           | 0.2164             |
| 0.1700         | 0.3670             | 0.1800           | 0.4234             |
| 0.2200         | 0.4554             | 0.2100           | 0.5343             |
| 0.2700         | 0.5370             | 0.2700           | 0.6421             |
| 0.3200         | 0.6165             | 0.3100           | 0.7246             |
| 0.3600         | 0.6339             | 0.3700           | 0.8015             |
| 0.4100         | 0.7515             | 0.4200           | 0.8652             |
| 0.5100         | 0.8638             | 0.5300           | 0.9613             |
| 0.7200         | 0.9942             | 0.7300           | 1.0019             |
| 0.9100         | 1.0015             | 0.9400           | 1.0028             |
| 1.1100         | 1.0010             | 1.1500           | 1.0005             |
| 1.3000         | 1.0009             | 1.3500           | 0.9997             |
| 1.5300         | 1.0010             | 1.5500           | 1.0014             |
| 1.7400         | 1.0011             | 1.7500           | 1.0013             |
| 1.9400         | 0.9997             | 1.9500           | 1.0022             |
| 2.1400         | 1.0004             | 2.1600           | 1.0007             |
| 2.3500         | 0.9996             | 2.3700           | 0.9955             |
| 2.5500         | 0.9949             | 2.5800           | 0.9942             |



Flight 24 Test point 41

Sweep, deg = 29.7 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 437.0 Rnpu = 3459000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9150                     | 0.2391                      | 0.1082                  | 0.4 x/c          |
| Outboard station rake | 0.7177                     | 0.2098                      | 0.0903                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4158             | 0.0400           | 0.3806             |
| 0.0500         | 0.4482             | 0.0700           | 0.4474             |
| 0.1100         | 0.4993             | 0.1200           | 0.5144             |
| 0.1700         | 0.5509             | 0.1800           | 0.5760             |
| 0.2200         | 0.5904             | 0.2100           | 0.6171             |
| 0.2700         | 0.6373             | 0.2700           | 0.6807             |
| 0.3200         | 0.6819             | 0.3100           | 0.7386             |
| 0.3600         | 0.7300             | 0.3700           | 0.7992             |
| 0.4100         | 0.7792             | 0.4200           | 0.8576             |
| 0.5100         | 0.8724             | 0.5300           | 0.9574             |
| 0.7200         | 0.9933             | 0.7300           | 1.0025             |
| 0.9100         | 0.9998             | 0.9400           | 1.0043             |
| 1.1100         | 1.0007             | 1.1500           | 1.0005             |
| 1.3000         | 1.0001             | 1.3500           | 0.9993             |
| 1.5300         | 1.0013             | 1.5500           | 1.0002             |
| 1.7400         | 1.0006             | 1.7500           | 0.9995             |
| 1.9400         | 0.9995             | 1.9500           | 0.9996             |
| 2.1400         | 0.9984             | 2.1600           | 0.9976             |
| 2.3500         | 1.0002             | 2.3700           | 0.9989             |
| 2.5500         | 0.9994             | 2.5800           | 0.9977             |

Flight 24 Test point 42

Sweep, deg = 29.7 Mach = 0.80 hp, ft = 20700. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 418.5 Rrho = 3338000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9321                     | 0.2216                      | 0.1050                  | 0.4 x/c          |
| Outboard station rake | 0.7178                     | 0.1900                      | 0.0861                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4537             | 0.0400           | 0.4387             |
| 0.0500         | 0.4881             | 0.0700           | 0.4994             |
| 0.1100         | 0.5405             | 0.1200           | 0.5671             |
| 0.1700         | 0.5947             | 0.1800           | 0.6256             |
| 0.2200         | 0.6301             | 0.2100           | 0.6656             |
| 0.2700         | 0.6745             | 0.2700           | 0.7223             |
| 0.3200         | 0.7155             | 0.3100           | 0.7737             |
| 0.3600         | 0.7592             | 0.3700           | 0.8249             |
| 0.4100         | 0.7998             | 0.4200           | 0.8753             |
| 0.5100         | 0.8822             | 0.5300           | 0.9624             |
| 0.7200         | 0.9923             | 0.7300           | 1.0021             |
| 0.9100         | 0.9993             | 0.9400           | 1.0024             |
| 1.1100         | 1.0012             | 1.1500           | 1.0004             |
| 1.3000         | 1.0000             | 1.3500           | 0.9981             |
| 1.5300         | 0.9996             | 1.5500           | 1.0001             |
| 1.7400         | 1.0002             | 1.7500           | 0.9991             |
| 1.9400         | 0.9993             | 1.9500           | 1.0007             |
| 2.1400         | 0.9995             | 2.1600           | 0.9987             |
| 2.3500         | 1.0012             | 2.3700           | 0.9996             |
| 2.5500         | 0.9997             | 2.5800           | 0.9987             |

Flight 24 Test point 43

Sweep, deg = 29.7 Mach = 0.80 hp, ft = 20100. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 436.6 Rrho = 3449000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9133                     | 0.2759                      | 0.1130                  | 0.4 x/c          |
| Outboard station rake | 0.7277                     | 0.2810                      | 0.0971                  | 0.4 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.3386 | 0.0400           | 0.1931 |
| 0.0500         | 0.3610 | 0.0700           | 0.2397 |
| 0.1100         | 0.4081 | 0.1200           | 0.3357 |
| 0.1700         | 0.4716 | 0.1800           | 0.4108 |
| 0.2200         | 0.5192 | 0.2100           | 0.4674 |
| 0.2700         | 0.5720 | 0.2700           | 0.5540 |
| 0.3200         | 0.6251 | 0.3100           | 0.6287 |
| 0.3600         | 0.6836 | 0.3700           | 0.7085 |
| 0.4100         | 0.7426 | 0.4200           | 0.7823 |
| 0.5100         | 0.8466 | 0.5300           | 0.9140 |
| 0.7200         | 0.9870 | 0.7300           | 1.0009 |
| 0.9100         | 0.9998 | 0.9400           | 1.0024 |
| 1.1100         | 1.0009 | 1.1500           | 0.9998 |
| 1.3000         | 0.9993 | 1.3500           | 0.9983 |
| 1.5300         | 1.0003 | 1.5500           | 1.0020 |
| 1.7400         | 1.0018 | 1.7500           | 1.0006 |
| 1.9400         | 0.9996 | 1.9500           | 1.0012 |
| 2.1400         | 0.9986 | 2.1600           | 0.9983 |
| 2.3500         | 1.0006 | 2.3700           | 0.9992 |
| 2.5500         | 0.9990 | 2.5800           | 0.9973 |

Flight 24 Test point 44

Sweep, deg = 29.7 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 355.9 Rho = 2888000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9177                     | 0.2698                      | 0.1130                  | 0.4 x/c          |
| Outboard station rake | 0.7214                     | 0.2620                      | 0.0950                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3570             | 0.0400           | 0.2234             |
| 0.0500         | 0.3813             | 0.0700           | 0.2872             |
| 0.1100         | 0.4248             | 0.1200           | 0.3723             |
| 0.1700         | 0.4850             | 0.1800           | 0.4498             |
| 0.2200         | 0.5287             | 0.2100           | 0.4994             |
| 0.2700         | 0.5825             | 0.2700           | 0.5795             |
| 0.3200         | 0.6354             | 0.3100           | 0.6571             |
| 0.3600         | 0.6932             | 0.3700           | 0.7332             |
| 0.4100         | 0.7459             | 0.4200           | 0.8074             |
| 0.5100         | 0.8494             | 0.5300           | 0.9350             |
| 0.7200         | 0.9877             | 0.7300           | 1.0026             |
| 0.9100         | 0.9996             | 0.9400           | 1.0046             |
| 1.1100         | 1.0004             | 1.1500           | 0.9994             |
| 1.3000         | 1.0003             | 1.3500           | 0.9988             |
| 1.5300         | 1.0008             | 1.5500           | 1.0015             |
| 1.7400         | 1.0007             | 1.7500           | 1.0013             |
| 1.9400         | 0.9996             | 1.9500           | 0.9986             |
| 2.1400         | 0.9992             | 2.1600           | 0.9968             |
| 2.3500         | 1.0011             | 2.3700           | 0.9983             |
| 2.5500         | 0.9982             | 2.5800           | 0.9981             |

Flight 24 Test point 45

Sweep, deg = 29.7 Mach = 0.81 hp, ft = 25100. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 354.2 Rrho = 2875000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9265                     | 0.2841                      | 0.1146                  | 0.4 x/c          |
| Outboard station rake | 0.7284                     | 0.2940                      | 0.0970                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3284             | 0.0400           | 0.1713             |
| 0.0500         | 0.3474             | 0.0700           | 0.2197             |
| 0.1100         | 0.4007             | 0.1200           | 0.3002             |
| 0.1700         | 0.4568             | 0.1800           | 0.3854             |
| 0.2200         | 0.5070             | 0.2100           | 0.4360             |
| 0.2700         | 0.5605             | 0.2700           | 0.5239             |
| 0.3200         | 0.6094             | 0.3100           | 0.6082             |
| 0.3600         | 0.6730             | 0.3700           | 0.6964             |
| 0.4100         | 0.7299             | 0.4200           | 0.7723             |
| 0.5100         | 0.8373             | 0.5300           | 0.9023             |
| 0.7200         | 0.9846             | 0.7300           | 1.0007             |
| 0.9100         | 0.9989             | 0.9400           | 1.0018             |
| 1.1100         | 1.0010             | 1.1500           | 0.9990             |
| 1.3000         | 1.0008             | 1.3500           | 0.9969             |
| 1.5300         | 1.0003             | 1.5500           | 1.0013             |
| 1.7400         | 1.0003             | 1.7500           | 1.0008             |
| 1.9400         | 1.0000             | 1.9500           | 1.0022             |
| 2.1400         | 0.9993             | 2.1600           | 1.0002             |
| 2.3500         | 1.0003             | 2.3700           | 1.0001             |
| 2.5500         | 0.9991             | 2.5800           | 0.9971             |

Flight 24 Test point 46

Sweep, deg = 29.7 Mach = 0.80 hp, ft = 25300. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 350.6 Rrho = 2854000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9159                     | 0.3566                      | 0.1251                  | 0.4 x/c          |
| Outboard station rake | 0.7278                     | 0.2872                      | 0.0927                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2525             | 0.0400           | 0.1663             |
| 0.0500         | 0.2675             | 0.0700           | 0.2284             |
| 0.1100         | 0.2967             | 0.1200           | 0.3225             |
| 0.1700         | 0.3511             | 0.1800           | 0.4028             |
| 0.2200         | 0.3923             | 0.2100           | 0.4646             |
| 0.2700         | 0.4434             | 0.2700           | 0.5618             |
| 0.3200         | 0.4914             | 0.3100           | 0.6424             |
| 0.3600         | 0.5575             | 0.3700           | 0.7184             |
| 0.4100         | 0.6263             | 0.4200           | 0.7907             |
| 0.5100         | 0.7474             | 0.5300           | 0.9150             |
| 0.7200         | 0.9485             | 0.7300           | 1.0008             |
| 0.9100         | 0.9986             | 0.9400           | 1.0023             |
| 1.1100         | 1.0012             | 1.1500           | 0.9999             |
| 1.3000         | 0.9994             | 1.3500           | 0.9983             |
| 1.5300         | 1.0010             | 1.5500           | 1.0011             |
| 1.7400         | 1.0011             | 1.7500           | 1.0009             |
| 1.9400         | 0.9998             | 1.9500           | 1.0020             |
| 2.1400         | 0.9998             | 2.1600           | 1.0004             |
| 2.3500         | 0.9999             | 2.3700           | 1.0006             |
| 2.5500         | 0.9993             | 2.5800           | 0.9935             |

Flight 24 Test point 47

Sweep, deg = 25.0 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 352.2 Rrho = 2868000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9792                     | 0.3079                      | 0.1020                  | 0.4 x/c          |
| Outboard station rake | 0.7202                     | 0.2339                      | 0.0792                  | 0.4 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.0622 | 0.0400           | 0.4119 |
| 0.0500         | 0.1786 | 0.0700           | 0.3109 |
| 0.1100         | 0.2931 | 0.1200           | 0.2705 |
| 0.1700         | 0.3914 | 0.1800           | 0.4615 |
| 0.2200         | 0.4542 | 0.2100           | 0.5602 |
| 0.2700         | 0.5250 | 0.2700           | 0.6661 |
| 0.3200         | 0.5952 | 0.3100           | 0.7457 |
| 0.3600         | 0.6688 | 0.3700           | 0.8218 |
| 0.4100         | 0.7378 | 0.4200           | 0.8828 |
| 0.5100         | 0.8511 | 0.5300           | 0.9771 |
| 0.7200         | 0.9916 | 0.7300           | 1.0010 |
| 0.9100         | 0.9980 | 0.9400           | 1.0019 |
| 1.1100         | 1.0000 | 1.1500           | 1.0003 |
| 1.3000         | 0.9996 | 1.3500           | 0.9986 |
| 1.5300         | 1.0012 | 1.5500           | 1.0015 |
| 1.7400         | 1.0007 | 1.7500           | 1.0010 |
| 1.9400         | 0.9998 | 1.9500           | 1.0013 |
| 2.1400         | 0.9992 | 2.1600           | 1.0003 |
| 2.3500         | 1.0005 | 2.3700           | 0.9976 |
| 2.5500         | 1.0010 | 2.5800           | 0.9965 |

Flight 24 Test point 48

Sweep, deg = 25.0 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 355.2 Rho = 2884000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7192                     | 0.2834                      | 0.0907                  | 0.4 x/c          |
| Outboard station rake | 0.7099                     | 0.2527                      | 0.0805                  | 0.4 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.3733 | 0.0400           | 0.3906 |
| 0.0500         | 0.3046 | 0.0700           | 0.3193 |
| 0.1100         | 0.1528 | 0.1200           | 0.2140 |
| 0.1700         | 0.3984 | 0.1800           | 0.4065 |
| 0.2200         | 0.4991 | 0.2100           | 0.5139 |
| 0.2700         | 0.5859 | 0.2700           | 0.6258 |
| 0.3200         | 0.6703 | 0.3100           | 0.7118 |
| 0.3600         | 0.7357 | 0.3700           | 0.7894 |
| 0.4100         | 0.7964 | 0.4200           | 0.8604 |
| 0.5100         | 0.8976 | 0.5300           | 0.9711 |
| 0.7200         | 1.0004 | 0.7300           | 1.0028 |
| 0.9100         | 1.0016 | 0.9400           | 1.0039 |
| 1.1100         | 1.0032 | 1.1500           | 1.0005 |
| 1.3000         | 1.0026 | 1.3500           | 0.9997 |
| 1.5300         | 1.0029 | 1.5500           | 1.0026 |
| 1.7400         | 1.0025 | 1.7500           | 1.0019 |
| 1.9400         | 1.0025 | 1.9500           | 1.0030 |
| 2.1400         | 1.0007 | 2.1600           | 0.9998 |
| 2.3500         | 0.9944 | 2.3700           | 0.9947 |
| 2.5500         | 0.9896 | 2.5800           | 0.9910 |



Flight 24 Test point 49

Sweep, deg = 25.0 Mach = 0.80 hp, ft = 25200. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 351.3 Rrho = 2859000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9040                     | 0.4021                      | 0.1001                  | 0.4 x/c          |
| Outboard station rake | 0.7240                     | 0.3429                      | 0.0833                  | 0.4 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.1102 | 0.0400           | 0.0821 |
| 0.0500         | 0.0974 | 0.0700           | 0.0663 |
| 0.1100         | 0.1205 | 0.1200           | 0.1543 |
| 0.1700         | 0.1761 | 0.1800           | 0.2106 |
| 0.2200         | 0.2370 | 0.2100           | 0.2763 |
| 0.2700         | 0.3284 | 0.2700           | 0.4036 |
| 0.3200         | 0.4130 | 0.3100           | 0.5131 |
| 0.3600         | 0.4988 | 0.3700           | 0.6192 |
| 0.4100         | 0.5837 | 0.4200           | 0.7198 |
| 0.5100         | 0.7421 | 0.5300           | 0.9071 |
| 0.7200         | 0.9734 | 0.7300           | 1.0026 |
| 0.9100         | 1.0008 | 0.9400           | 1.0047 |
| 1.1100         | 1.0012 | 1.1500           | 1.0005 |
| 1.3000         | 1.0008 | 1.3500           | 0.9994 |
| 1.5300         | 1.0011 | 1.5500           | 1.0029 |
| 1.7400         | 1.0013 | 1.7500           | 1.0019 |
| 1.9400         | 1.0011 | 1.9500           | 1.0022 |
| 2.1400         | 1.0003 | 2.1600           | 1.0006 |
| 2.3500         | 0.9998 | 2.3700           | 0.9962 |
| 2.5500         | 0.9936 | 2.5800           | 0.9891 |

Flight 24 Test point 50

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 355.3 Rrho = 2885000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7080                     | 0.2583                      | 0.0827                  | 0.4 x/c          |
| Outboard station rake | 0.4331                     | 0.1939                      | 0.0624                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5063             | 0.0400           | 0.5738             |
| 0.0500         | 0.4708             | 0.0700           | 0.5135             |
| 0.1100         | 0.3141             | 0.1200           | 0.2535             |
| 0.1700         | 0.2281             | 0.1800           | 0.3656             |
| 0.2200         | 0.4195             | 0.2100           | 0.5462             |
| 0.2700         | 0.5550             | 0.2700           | 0.7095             |
| 0.3200         | 0.6702             | 0.3100           | 0.8305             |
| 0.3600         | 0.7653             | 0.3700           | 0.9348             |
| 0.4100         | 0.8487             | 0.4200           | 0.9869             |
| 0.5100         | 0.9636             | 0.5300           | 1.0042             |
| 0.7200         | 1.0019             | 0.7300           | 1.0049             |
| 0.9100         | 1.0027             | 0.9400           | 1.0055             |
| 1.1100         | 1.0036             | 1.1500           | 1.0020             |
| 1.3000         | 1.0033             | 1.3500           | 1.0000             |
| 1.5300         | 1.0041             | 1.5500           | 1.0031             |
| 1.7400         | 1.0026             | 1.7500           | 1.0008             |
| 1.9400         | 1.0025             | 1.9500           | 0.9981             |
| 2.1400         | 0.9953             | 2.1600           | 0.9983             |
| 2.3500         | 0.9938             | 2.3700           | 0.9980             |
| 2.5500         | 0.9903             | 2.5800           | 0.9982             |

Flight 24 Test point 51

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 355.0 Rrho = 2883000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6915                     | 0.2507                      | 0.0820                  | 0.4 x/c          |
| Outboard station rake | 0.5335                     | 0.2169                      | 0.0751                  | 0.4 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.6164 | 0.0400           | 0.6897 |
| 0.0500         | 0.6081 | 0.0700           | 0.6754 |
| 0.1100         | 0.4831 | 0.1200           | 0.5093 |
| 0.1700         | 0.3005 | 0.1800           | 0.3048 |
| 0.2200         | 0.2395 | 0.2100           | 0.2750 |
| 0.2700         | 0.4571 | 0.2700           | 0.5305 |
| 0.3200         | 0.6144 | 0.3100           | 0.6853 |
| 0.3600         | 0.7364 | 0.3700           | 0.8221 |
| 0.4100         | 0.8449 | 0.4200           | 0.9234 |
| 0.5100         | 0.9805 | 0.5300           | 0.9978 |
| 0.7200         | 1.0026 | 0.7300           | 1.0030 |
| 0.9100         | 1.0030 | 0.9400           | 1.0040 |
| 1.1100         | 1.0042 | 1.1500           | 1.0005 |
| 1.3000         | 1.0021 | 1.3500           | 0.9988 |
| 1.5300         | 1.0029 | 1.5500           | 1.0014 |
| 1.7400         | 1.0025 | 1.7500           | 1.0011 |
| 1.9400         | 1.0007 | 1.9500           | 1.0008 |
| 2.1400         | 0.9949 | 2.1600           | 0.9972 |
| 2.3500         | 0.9947 | 2.3700           | 0.9972 |
| 2.5500         | 0.9925 | 2.5800           | 0.9983 |

Flight 24 Test point 52

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 24800. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 355.5 Rho = 2896000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | 0.6610                        | 0.2488                         | 0.0771                     | 0.4 x/c             |
| Outboard station rake | 0.4335                        | 0.2014                         | 0.0632                     | 0.4 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.4962 | 0.0400           | 0.5627 |
| 0.0500         | 0.4614 | 0.0700           | 0.5218 |
| 0.1100         | 0.2987 | 0.1200           | 0.2917 |
| 0.1700         | 0.2464 | 0.1800           | 0.3018 |
| 0.2200         | 0.4344 | 0.2100           | 0.5064 |
| 0.2700         | 0.5734 | 0.2700           | 0.6818 |
| 0.3200         | 0.6918 | 0.3100           | 0.8142 |
| 0.3600         | 0.7916 | 0.3700           | 0.9235 |
| 0.4100         | 0.8769 | 0.4200           | 0.9842 |
| 0.5100         | 0.9831 | 0.5300           | 1.0070 |
| 0.7200         | 1.0056 | 0.7300           | 1.0071 |
| 0.9100         | 1.0047 | 0.9400           | 1.0065 |
| 1.1100         | 1.0057 | 1.1500           | 1.0044 |
| 1.3000         | 1.0059 | 1.3500           | 1.0023 |
| 1.5300         | 1.0055 | 1.5500           | 1.0054 |
| 1.7400         | 1.0050 | 1.7500           | 1.0035 |
| 1.9400         | 0.9986 | 1.9500           | 0.9968 |
| 2.1400         | 0.9912 | 2.1600           | 0.9949 |
| 2.3500         | 0.9891 | 2.3700           | 0.9951 |
| 2.5500         | 0.9886 | 2.5800           | 0.9929 |

Flight 24 Test point 53

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 24700. Angle of attack, deg = 2.1  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 356.8 Rho = 2906000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6934                     | 0.3088                      | 0.0807                  | 0.4 x/c          |
| Outboard station rake | 0.4399                     | 0.2163                      | 0.0645                  | 0.4 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.3766 | 0.0400           | 0.5151 |
| 0.0500         | 0.3752 | 0.0700           | 0.4924 |
| 0.1100         | 0.2536 | 0.1200           | 0.3039 |
| 0.1700         | 0.0484 | 0.1800           | 0.2250 |
| 0.2200         | 0.2753 | 0.2100           | 0.4464 |
| 0.2700         | 0.4304 | 0.2700           | 0.6335 |
| 0.3200         | 0.5637 | 0.3100           | 0.7783 |
| 0.3600         | 0.6720 | 0.3700           | 0.9007 |
| 0.4100         | 0.7707 | 0.4200           | 0.9724 |
| 0.5100         | 0.9356 | 0.5300           | 1.0052 |
| 0.7200         | 1.0082 | 0.7300           | 1.0068 |
| 0.9100         | 1.0086 | 0.9400           | 1.0077 |
| 1.1100         | 1.0087 | 1.1500           | 1.0037 |
| 1.3000         | 1.0072 | 1.3500           | 1.0015 |
| 1.5300         | 1.0077 | 1.5500           | 1.0043 |
| 1.7400         | 1.0052 | 1.7500           | 1.0041 |
| 1.9400         | 0.9944 | 1.9500           | 0.9957 |
| 2.1400         | 0.9877 | 2.1600           | 0.9922 |
| 2.3500         | 0.9860 | 2.3700           | 0.9895 |
| 2.5500         | 0.9854 | 2.5800           | 0.9892 |

Flight 24 Test point 54

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 25000. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 306.2 R<sub>npu</sub> = 2661000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4652                     | 0.1432                      | 0.0580                  | 0.4 x/c          |
| Outboard station rake | 0.3460                     | 0.1274                      | 0.0467                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2623             | 0.0400           | 0.4019             |
| 0.0500         | 0.3301             | 0.0700           | 0.3037             |
| 0.1100         | 0.5759             | 0.1200           | 0.6066             |
| 0.1700         | 0.7095             | 0.1800           | 0.7489             |
| 0.2200         | 0.7842             | 0.2100           | 0.8271             |
| 0.2700         | 0.8485             | 0.2700           | 0.9067             |
| 0.3200         | 0.8987             | 0.3100           | 0.9606             |
| 0.3600         | 0.9431             | 0.3700           | 0.9901             |
| 0.4100         | 0.9715             | 0.4200           | 0.9968             |
| 0.5100         | 0.9975             | 0.5300           | 1.0019             |
| 0.7200         | 1.0014             | 0.7300           | 1.0009             |
| 0.9100         | 1.0007             | 0.9400           | 1.0039             |
| 1.1100         | 1.0049             | 1.1500           | 0.9987             |
| 1.3000         | 1.0028             | 1.3500           | 0.9965             |
| 1.5300         | 1.0037             | 1.5500           | 1.0014             |
| 1.7400         | 1.0043             | 1.7500           | 1.0025             |
| 1.9400         | 1.0029             | 1.9500           | 1.0030             |
| 2.1400         | 1.0036             | 2.1600           | 0.9999             |
| 2.3500         | 1.0038             | 2.3700           | 1.0016             |
| 2.5500         | 1.0031             | 2.5800           | 1.0027             |

Flight 24 Test point 55

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 24900. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -5.3 QBAR, lb/ft<sup>2</sup> = 308.0 Rrho = 2665000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5965                     | 0.1531                      | 0.0666                  | 0.4 x/c          |
| Outboard station rake | 0.3954                     | 0.1401                      | 0.0529                  | 0.4 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5865 | 0.0400           | 0.7632 |
| 0.0500         | 0.2971 | 0.0700           | 0.5644 |
| 0.1100         | 0.4981 | 0.1200           | 0.2775 |
| 0.1700         | 0.6922 | 0.1800           | 0.6056 |
| 0.2200         | 0.7789 | 0.2100           | 0.7325 |
| 0.2700         | 0.8306 | 0.2700           | 0.8507 |
| 0.3200         | 0.8834 | 0.3100           | 0.9287 |
| 0.3600         | 0.9184 | 0.3700           | 0.9800 |
| 0.4100         | 0.9401 | 0.4200           | 0.9966 |
| 0.5100         | 0.9738 | 0.5300           | 0.9999 |
| 0.7200         | 0.9984 | 0.7300           | 1.0009 |
| 0.9100         | 0.9995 | 0.9400           | 1.0044 |
| 1.1100         | 1.0026 | 1.1500           | 0.9988 |
| 1.3000         | 1.0028 | 1.3500           | 0.9979 |
| 1.5300         | 1.0059 | 1.5500           | 1.0033 |
| 1.7400         | 1.0038 | 1.7500           | 1.0018 |
| 1.9400         | 1.0020 | 1.9500           | 1.0045 |
| 2.1400         | 1.0024 | 2.1600           | 1.0029 |
| 2.3500         | 1.0050 | 2.3700           | 1.0037 |
| 2.5500         | 1.0038 | 2.5800           | 1.0053 |

Flight 24 Test point 56

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 26200. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 295.9 Rrho = 2572000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4445                     | 0.1366                      | 0.0557                  | 0.4 x/c          |
| Outboard station rake | 0.3459                     | 0.1285                      | 0.0467                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2268             | 0.0400           | 0.3947             |
| 0.0500         | 0.3730             | 0.0700           | 0.2961             |
| 0.1100         | 0.5996             | 0.1200           | 0.6036             |
| 0.1700         | 0.7267             | 0.1800           | 0.7436             |
| 0.2200         | 0.7991             | 0.2100           | 0.8278             |
| 0.2700         | 0.8581             | 0.2700           | 0.9052             |
| 0.3200         | 0.9096             | 0.3100           | 0.9617             |
| 0.3600         | 0.9484             | 0.3700           | 0.9913             |
| 0.4100         | 0.9738             | 0.4200           | 0.9978             |
| 0.5100         | 0.9984             | 0.5300           | 0.9997             |
| 0.7200         | 1.0017             | 0.7300           | 1.0008             |
| 0.9100         | 1.0006             | 0.9400           | 1.0033             |
| 1.1100         | 1.0036             | 1.1500           | 0.9979             |
| 1.3000         | 1.0023             | 1.3500           | 0.9959             |
| 1.5300         | 1.0043             | 1.5500           | 1.0023             |
| 1.7400         | 1.0033             | 1.7500           | 1.0011             |
| 1.9400         | 1.0026             | 1.9500           | 1.0035             |
| 2.1400         | 1.0013             | 2.1600           | 1.0010             |
| 2.3500         | 1.0036             | 2.3700           | 1.0016             |
| 2.5500         | 1.0045             | 2.5800           | 1.0037             |



Flight 24 Test point 57

Sweep, deg = 20.0 Mach = 0.76 hp, ft = 24900. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 315.2 Rrho = 2703000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5199                     | 0.1695                      | 0.0687                  | 0.4 x/c          |
| Outboard station rake | 0.4296                     | 0.1715                      | 0.0584                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1032             | 0.0400           | 0.6539             |
| 0.0500         | 0.3725             | 0.0700           | 0.5237             |
| 0.1100         | 0.5520             | 0.1200           | 0.1488             |
| 0.1700         | 0.6576             | 0.1800           | 0.5039             |
| 0.2200         | 0.7187             | 0.2100           | 0.6395             |
| 0.2700         | 0.7751             | 0.2700           | 0.7722             |
| 0.3200         | 0.8293             | 0.3100           | 0.8716             |
| 0.3600         | 0.8817             | 0.3700           | 0.9519             |
| 0.4100         | 0.9284             | 0.4200           | 0.9925             |
| 0.5100         | 0.9940             | 0.5300           | 1.0059             |
| 0.7200         | 1.0078             | 0.7300           | 1.0079             |
| 0.9100         | 1.0031             | 0.9400           | 1.0044             |
| 1.1100         | 0.9996             | 1.1500           | 0.9983             |
| 1.3000         | 0.9979             | 1.3500           | 0.9945             |
| 1.5300         | 1.0009             | 1.5500           | 1.0009             |
| 1.7400         | 1.0002             | 1.7500           | 0.9998             |
| 1.9400         | 1.0001             | 1.9500           | 0.9984             |
| 2.1400         | 0.9987             | 2.1600           | 0.9987             |
| 2.3500         | 0.9992             | 2.3700           | 0.9982             |
| 2.5500         | 0.9985             | 2.5800           | 1.0005             |

Flight 24 Test point 58

Sweep, deg = 25.3 Mach = 0.76 hp, ft = 25000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 313.9 Rrho = 2693000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7259                     | 0.1808                      | 0.0855                  | 0.4 x/c          |
| Outboard station rake | 0.4052                     | 0.1269                      | 0.0525                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3851             | 0.0400           | 0.3656             |
| 0.0500         | 0.4689             | 0.0700           | 0.5148             |
| 0.1100         | 0.5666             | 0.1200           | 0.6508             |
| 0.1700         | 0.6462             | 0.1800           | 0.7428             |
| 0.2200         | 0.6937             | 0.2100           | 0.8019             |
| 0.2700         | 0.7469             | 0.2700           | 0.8680             |
| 0.3200         | 0.7922             | 0.3100           | 0.9255             |
| 0.3600         | 0.8387             | 0.3700           | 0.9741             |
| 0.4100         | 0.8786             | 0.4200           | 0.9974             |
| 0.5100         | 0.9512             | 0.5300           | 1.0043             |
| 0.7200         | 0.9988             | 0.7300           | 1.0030             |
| 0.9100         | 0.9994             | 0.9400           | 1.0045             |
| 1.1100         | 0.9999             | 1.1500           | 1.0000             |
| 1.3000         | 0.9989             | 1.3500           | 0.9973             |
| 1.5300         | 1.0012             | 1.5500           | 1.0036             |
| 1.7400         | 1.0005             | 1.7500           | 1.0016             |
| 1.9400         | 0.9993             | 1.9500           | 1.0044             |
| 2.1400         | 1.0010             | 2.1600           | 1.0020             |
| 2.3500         | 1.0010             | 2.3700           | 1.0041             |
| 2.5500         | 1.0000             | 2.5800           | 1.0036             |

Flight 24 Test point 59

Sweep, deg = 25.3 Mach = 0.75 hp, ft = 25000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 312.4 Rrho = 2689000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | 0.4756                        | 0.1381                         | 0.0637                     | 0.4 x/c             |
| Outboard station rake | 0.4444                        | 0.1123                         | 0.0490                     | 0.4 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.4112 | 0.0400           | 0.1458 |
| 0.0500         | 0.5087 | 0.0700           | 0.5782 |
| 0.1100         | 0.6192 | 0.1200           | 0.6996 |
| 0.1700         | 0.7094 | 0.1800           | 0.7880 |
| 0.2200         | 0.7644 | 0.2100           | 0.8417 |
| 0.2700         | 0.8212 | 0.2700           | 0.8991 |
| 0.3200         | 0.8718 | 0.3100           | 0.9420 |
| 0.3600         | 0.9206 | 0.3700           | 0.9727 |
| 0.4100         | 0.9569 | 0.4200           | 0.9893 |
| 0.5100         | 0.9975 | 0.5300           | 1.0015 |
| 0.7200         | 1.0017 | 0.7300           | 1.0012 |
| 0.9100         | 1.0032 | 0.9400           | 1.0043 |
| 1.1100         | 1.0051 | 1.1500           | 0.9966 |
| 1.3000         | 1.0039 | 1.3500           | 0.9958 |
| 1.5300         | 1.0062 | 1.5500           | 1.0014 |
| 1.7400         | 1.0054 | 1.7500           | 1.0012 |
| 1.9400         | 1.0041 | 1.9500           | 1.0031 |
| 2.1400         | 1.0047 | 2.1600           | 1.0023 |
| 2.3500         | 1.0052 | 2.3700           | 1.0022 |
| 2.5500         | 1.0060 | 2.5800           | 1.0011 |

Flight 24 Test point 60

Sweep, deg = 30.4 Mach = 0.75 hp, ft = 25000. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 310.9 Rrho = 2685000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7367                     | 0.1877                      | 0.0947                  | 0.4 x/c          |
| Outboard station rake | 0.5520                     | 0.1536                      | 0.0719                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5097             | 0.0400           | 0.4998             |
| 0.0500         | 0.5468             | 0.0700           | 0.5526             |
| 0.1100         | 0.5972             | 0.1200           | 0.6255             |
| 0.1700         | 0.6538             | 0.1800           | 0.6876             |
| 0.2200         | 0.6950             | 0.2100           | 0.7297             |
| 0.2700         | 0.7362             | 0.2700           | 0.7865             |
| 0.3200         | 0.7715             | 0.3100           | 0.8369             |
| 0.3600         | 0.8101             | 0.3700           | 0.8831             |
| 0.4100         | 0.8440             | 0.4200           | 0.9249             |
| 0.5100         | 0.9092             | 0.5300           | 0.9824             |
| 0.7200         | 0.9941             | 0.7300           | 1.0023             |
| 0.9100         | 1.0005             | 0.9400           | 1.0026             |
| 1.1100         | 1.0004             | 1.1500           | 0.9985             |
| 1.3000         | 0.9998             | 1.3500           | 0.9974             |
| 1.5300         | 1.0027             | 1.5500           | 1.0021             |
| 1.7400         | 1.0008             | 1.7500           | 1.0017             |
| 1.9400         | 1.0009             | 1.9500           | 1.0018             |
| 2.1400         | 0.9999             | 2.1600           | 1.0007             |
| 2.3500         | 1.0005             | 2.3700           | 1.0023             |
| 2.5500         | 1.0005             | 2.5800           | 1.0022             |

Flight 24 Test point 61

Sweep, deg = 30.4 Mach = 0.76 hp, ft = 25000. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 312.4 Rrho = 2688000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7352                     | 0.1859                      | 0.0941                  | 0.4 x/c          |
| Outboard station rake | 0.5592                     | 0.1526                      | 0.0723                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5168             | 0.0400           | 0.5202             |
| 0.0500         | 0.5459             | 0.0700           | 0.5673             |
| 0.1100         | 0.6017             | 0.1200           | 0.6357             |
| 0.1700         | 0.6567             | 0.1800           | 0.6916             |
| 0.2200         | 0.6959             | 0.2100           | 0.7373             |
| 0.2700         | 0.7383             | 0.2700           | 0.7889             |
| 0.3200         | 0.7748             | 0.3100           | 0.8345             |
| 0.3600         | 0.8120             | 0.3700           | 0.8777             |
| 0.4100         | 0.8458             | 0.4200           | 0.9213             |
| 0.5100         | 0.9107             | 0.5300           | 0.9848             |
| 0.7200         | 0.9947             | 0.7300           | 0.9999             |
| 0.9100         | 0.9977             | 0.9400           | 1.0045             |
| 1.1100         | 0.9999             | 1.1500           | 0.9995             |
| 1.3000         | 1.0012             | 1.3500           | 0.9969             |
| 1.5300         | 1.0007             | 1.5500           | 1.0026             |
| 1.7400         | 1.0016             | 1.7500           | 1.0022             |
| 1.9400         | 1.0014             | 1.9500           | 1.0043             |
| 2.1400         | 1.0001             | 2.1600           | 1.0013             |
| 2.3500         | 1.0015             | 2.3700           | 1.0016             |
| 2.5500         | 1.0011             | 2.5800           | 1.0024             |

Flight 24 Test point 62

Sweep, deg = 30.4 Mach = 0.75 hp, ft = 24500. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 319.0 Rrho = 2735000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9367                     | 0.2110                      | 0.1057                  | 0.4 x/c          |
| Outboard station rake | 0.7216                     | 0.1788                      | 0.0851                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4889             | 0.0400           | 0.4865             |
| 0.0500         | 0.5263             | 0.0700           | 0.5371             |
| 0.1100         | 0.5798             | 0.1200           | 0.6051             |
| 0.1700         | 0.6315             | 0.1800           | 0.6599             |
| 0.2200         | 0.6672             | 0.2100           | 0.6939             |
| 0.2700         | 0.7047             | 0.2700           | 0.7470             |
| 0.3200         | 0.7399             | 0.3100           | 0.7946             |
| 0.3600         | 0.7785             | 0.3700           | 0.8373             |
| 0.4100         | 0.8110             | 0.4200           | 0.8790             |
| 0.5100         | 0.8760             | 0.5300           | 0.9548             |
| 0.7200         | 0.9817             | 0.7300           | 1.0017             |
| 0.9100         | 0.9980             | 0.9400           | 1.0023             |
| 1.1100         | 0.9995             | 1.1500           | 0.9978             |
| 1.3000         | 0.9989             | 1.3500           | 0.9967             |
| 1.5300         | 1.0014             | 1.5500           | 1.0011             |
| 1.7400         | 1.0002             | 1.7500           | 1.0001             |
| 1.9400         | 0.9994             | 1.9500           | 1.0015             |
| 2.1400         | 0.9992             | 2.1600           | 0.9996             |
| 2.3500         | 1.0017             | 2.3700           | 0.9994             |
| 2.5500         | 1.0017             | 2.5800           | 0.9998             |

Flight 24 Test point 63

Sweep, deg = 30.4 Mach = 0.70 hp, ft = 24900. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 269.9 Rrho = 2483000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9774                     | 0.1878                      | 0.0997                  | 0.4 x/c          |
| Outboard station rake | 0.5677                     | 0.1434                      | 0.0708                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5334             | 0.0400           | 0.5519             |
| 0.0500         | 0.5647             | 0.0700           | 0.5939             |
| 0.1100         | 0.6170             | 0.1200           | 0.6606             |
| 0.1700         | 0.6703             | 0.1800           | 0.7145             |
| 0.2200         | 0.7027             | 0.2100           | 0.7539             |
| 0.2700         | 0.7409             | 0.2700           | 0.8026             |
| 0.3200         | 0.7700             | 0.3100           | 0.8478             |
| 0.3600         | 0.8069             | 0.3700           | 0.8848             |
| 0.4100         | 0.8350             | 0.4200           | 0.9222             |
| 0.5100         | 0.8934             | 0.5300           | 0.9817             |
| 0.7200         | 0.9861             | 0.7300           | 1.0029             |
| 0.9100         | 0.9967             | 0.9400           | 1.0032             |
| 1.1100         | 1.0009             | 1.1500           | 0.9990             |
| 1.3000         | 0.9988             | 1.3500           | 0.9968             |
| 1.5300         | 1.0004             | 1.5500           | 1.0036             |
| 1.7400         | 1.0004             | 1.7500           | 1.0023             |
| 1.9400         | 1.0009             | 1.9500           | 1.0030             |
| 2.1400         | 1.0001             | 2.1600           | 1.0027             |
| 2.3500         | 1.0020             | 2.3700           | 1.0016             |
| 2.5500         | 0.9998             | 2.5800           | 1.0034             |

Flight 24 Test point 64

Sweep, deg = 30.4 Mach = 0.70 hp, ft = 25300. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 267.5 Rrho = 2458000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | 0.7302                        | 0.1619                         | 0.0856                     | 0.4 x/c             |
| Outboard station rake | 0.4844                        | 0.1218                         | 0.0595                     | 0.4 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5434 | 0.0400           | 0.5803 |
| 0.0500         | 0.5758 | 0.0700           | 0.6245 |
| 0.1100         | 0.6348 | 0.1200           | 0.6897 |
| 0.1700         | 0.6868 | 0.1800           | 0.7535 |
| 0.2200         | 0.7282 | 0.2100           | 0.7902 |
| 0.2700         | 0.7698 | 0.2700           | 0.8440 |
| 0.3200         | 0.8047 | 0.3100           | 0.8886 |
| 0.3600         | 0.8483 | 0.3700           | 0.9264 |
| 0.4100         | 0.8774 | 0.4200           | 0.9603 |
| 0.5100         | 0.9388 | 0.5300           | 1.0009 |
| 0.7200         | 0.9975 | 0.7300           | 1.0047 |
| 0.9100         | 0.9987 | 0.9400           | 1.0065 |
| 1.1100         | 0.9994 | 1.1500           | 1.0007 |
| 1.3000         | 1.0001 | 1.3500           | 0.9990 |
| 1.5300         | 1.0014 | 1.5500           | 1.0051 |
| 1.7400         | 1.0021 | 1.7500           | 1.0039 |
| 1.9400         | 1.0017 | 1.9500           | 1.0057 |
| 2.1400         | 0.9994 | 2.1600           | 1.0040 |
| 2.3500         | 0.9991 | 2.3700           | 1.0054 |
| 2.5500         | 1.0006 | 2.5800           | 1.0038 |



Flight 24 Test point 65

Sweep, deg = 30.4 Mach = 0.70 hp, ft = 24700. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 971.1 Rho = 2494000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7486                     | 0.1735                      | 0.0919                  | 0.4 x/c          |
| Outboard station rake | 0.5545                     | 0.1310                      | 0.0642                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5393             | 0.0400           | 0.5591             |
| 0.0500         | 0.5728             | 0.0700           | 0.6024             |
| 0.1100         | 0.6298             | 0.1200           | 0.6745             |
| 0.1700         | 0.6830             | 0.1800           | 0.7329             |
| 0.2200         | 0.7187             | 0.2100           | 0.7765             |
| 0.2700         | 0.7569             | 0.2700           | 0.8322             |
| 0.3200         | 0.7913             | 0.3100           | 0.8786             |
| 0.3600         | 0.8254             | 0.3700           | 0.9162             |
| 0.4100         | 0.8551             | 0.4200           | 0.9470             |
| 0.5100         | 0.9161             | 0.5300           | 0.9888             |
| 0.7200         | 0.9912             | 0.7300           | 1.0019             |
| 0.910          | 0.9988             | 0.9400           | 1.0028             |
| 1.1100         | 1.0015             | 1.1500           | 0.9987             |
| 1.3000         | 1.0014             | 1.3500           | 0.9950             |
| 1.5300         | 1.0015             | 1.5500           | 1.0014             |
| 1.7400         | 1.0007             | 1.7500           | 1.0007             |
| 1.9400         | 1.0019             | 1.9500           | 1.0055             |
| 2.1400         | 1.0007             | 2.1600           | 1.0019             |
| 2.3500         | 1.0014             | 2.3700           | 1.0016             |
| 2.5500         | 1.0010             | 2.5800           | 1.0017             |

Flight 24 Test point 66

Sweep, deg = 25.1 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 272.3 Rnpu = 2488000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4640                     | 0.1248                      | 0.0598                  | 0.4 x/c          |
| Outboard station rake | 0.3351                     | 0.0973                      | 0.0417                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4517             | 0.0400           | 0.4734             |
| 0.0500         | 0.5415             | 0.0700           | 0.5988             |
| 0.1100         | 0.6478             | 0.1200           | 0.7292             |
| 0.1700         | 0.7300             | 0.1800           | 0.8169             |
| 0.2200         | 0.7860             | 0.2100           | 0.8776             |
| 0.2700         | 0.8432             | 0.2700           | 0.9364             |
| 0.3200         | 0.8963             | 0.3100           | 0.9766             |
| 0.3600         | 0.9427             | 0.3700           | 0.9972             |
| 0.4100         | 0.9716             | 0.4200           | 1.0030             |
| 0.5100         | 0.9971             | 0.5300           | 1.0025             |
| 0.7200         | 1.0008             | 0.7300           | 1.0019             |
| 0.9100         | 1.0026             | 0.9400           | 1.0046             |
| 1.1100         | 1.0040             | 1.1500           | 0.9988             |
| 1.3000         | 1.0017             | 1.3500           | 0.9956             |
| 1.5300         | 1.0053             | 1.5500           | 1.0032             |
| 1.7400         | 1.0038             | 1.7500           | 1.0007             |
| 1.9400         | 1.0038             | 1.9500           | 1.0054             |
| 2.1400         | 1.0020             | 2.1600           | 1.0027             |
| 2.3500         | 1.0024             | 2.3700           | 1.0031             |
| 2.5500         | 1.0048             | 2.5800           | 1.0047             |

Flight 24 Test point 67

Sweep, deg = 25.0 Mach = 0.71 hp, ft = 25500, Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 269.9 Rrho = 2460000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | 0.4291                        | 0.1159                         | 0.0558                     | 0.4 x/c             |
| Outboard station rake | 0.3051                        | 0.0845                         | 0.0361                     | 0.4 x/c             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4762             | 0.0400           | 0.5353             |
| 0.0500         | 0.5571             | 0.0700           | 0.6456             |
| 0.1100         | 0.6607             | 0.1200           | 0.7617             |
| 0.1700         | 0.7507             | 0.1800           | 0.8521             |
| 0.2200         | 0.8081             | 0.2100           | 0.9139             |
| 0.2700         | 0.8634             | 0.2700           | 0.9710             |
| 0.3200         | 0.9119             | 0.3100           | 0.9981             |
| 0.3600         | 0.9551             | 0.3700           | 1.0009             |
| 0.4100         | 0.9815             | 0.4200           | 1.0026             |
| 0.5100         | 0.9975             | 0.5300           | 1.0038             |
| 0.7200         | 0.9996             | 0.7300           | 1.0034             |
| 0.9100         | 1.0000             | 0.9400           | 1.0048             |
| 1.1100         | 1.0028             | 1.1500           | 0.9987             |
| 1.3000         | 1.0020             | 1.3500           | 0.9984             |
| 1.5300         | 1.0041             | 1.5500           | 1.0032             |
| 1.7400         | 1.0029             | 1.7500           | 1.0022             |
| 1.9400         | 1.0042             | 1.9500           | 1.0043             |
| 2.1400         | 1.0005             | 2.1600           | 1.0019             |
| 2.3500         | 1.0036             | 2.3700           | 1.0027             |
| 2.5500         | 1.0014             | 2.5800           | 1.0041             |

Flight 24 Test point 68

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 25100. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 268.9 Rrho = 2468000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4297                     | 0.1351                      | 0.0541                  | 0.4 x/c          |
| Outboard station rake | 0.3223                     | 0.1151                      | 0.0416                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1780             | 0.0400           | 0.3008             |
| 0.0500         | 0.3720             | 0.0700           | 0.4001             |
| 0.1100         | 0.5987             | 0.1200           | 0.6595             |
| 0.1700         | 0.7281             | 0.1800           | 0.7931             |
| 0.2200         | 0.7995             | 0.2100           | 0.8684             |
| 0.2700         | 0.8641             | 0.2700           | 0.9428             |
| 0.3200         | 0.9147             | 0.3100           | 0.9875             |
| 0.3600         | 0.9567             | 0.3700           | 0.9983             |
| 0.4100         | 0.9816             | 0.4200           | 0.9990             |
| 0.5100         | 0.9977             | 0.5300           | 1.0015             |
| 0.7200         | 0.9999             | 0.7300           | 1.0002             |
| 0.9100         | 0.9992             | 0.9400           | 1.0046             |
| 1.1100         | 1.0029             | 1.1500           | 0.9978             |
| 1.3000         | 1.0031             | 1.3500           | 0.9962             |
| 1.5300         | 1.0027             | 1.5500           | 1.0030             |
| 1.7400         | 1.0044             | 1.7500           | 1.0015             |
| 1.9400         | 1.0018             | 1.9500           | 1.0034             |
| 2.1400         | 1.0006             | 2.1600           | 1.0019             |
| 2.3500         | 1.0029             | 2.3700           | 1.0024             |
| 2.5500         | 1.0032             | 2.5800           | 1.0028             |

Flight 24 Test point 69

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = -5.2 QBAR, lb/ft<sup>2</sup> = 265.4 Rrho = 2450000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4719                     | 0.1558                      | 0.0657                  | 0.4 x/c          |
| Outboard station rake | 0.3889                     | 0.1267                      | 0.0516                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.6618             | 0.0400           | 0.7284             |
| 0.0500         | 0.4477             | 0.0700           | 0.4986             |
| 0.1100         | 0.3613             | 0.1200           | 0.4138             |
| 0.1700         | 0.6136             | 0.1800           | 0.6644             |
| 0.2200         | 0.7202             | 0.2100           | 0.7824             |
| 0.2700         | 0.8007             | 0.2700           | 0.8877             |
| 0.3200         | 0.8684             | 0.3100           | 0.9544             |
| 0.3600         | 0.9258             | 0.3700           | 0.9898             |
| 0.4100         | 0.9607             | 0.4200           | 0.9932             |
| 0.5100         | 0.9961             | 0.5300           | 0.9973             |
| 0.7200         | 1.0007             | 0.7300           | 1.0006             |
| 0.9100         | 1.0032             | 0.9400           | 1.0015             |
| 1.1100         | 1.0033             | 1.1500           | 0.9960             |
| 1.3000         | 1.0046             | 1.3500           | 0.9952             |
| 1.5300         | 1.0057             | 1.5500           | 1.0022             |
| 1.7400         | 1.0050             | 1.7500           | 1.0029             |
| 1.9400         | 1.0060             | 1.9500           | 1.0038             |
| 2.1400         | 1.0042             | 2.1600           | 1.0027             |
| 2.3500         | 1.0050             | 2.3700           | 1.0022             |
| 2.5500         | 1.0055             | 2.5800           | 1.0023             |

Flight 24 Test point 70

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 25200. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 267.6 Rrho = 2458000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4203                     | 0.1298                      | 0.0508                  | 0.4 x/c          |
| Outboard station rake | 0.3232                     | 0.1149                      | 0.0411                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1151             | 0.0400           | 0.2770             |
| 0.0500         | 0.4082             | 0.0700           | 0.4085             |
| 0.1100         | 0.6157             | 0.1200           | 0.6640             |
| 0.1700         | 0.7423             | 0.1800           | 0.7943             |
| 0.2200         | 0.8127             | 0.2100           | 0.8699             |
| 0.2700         | 0.8783             | 0.2700           | 0.9460             |
| 0.3200         | 0.9290             | 0.3100           | 0.9872             |
| 0.3600         | 0.9691             | 0.3700           | 0.9976             |
| 0.4100         | 0.9875             | 0.4200           | 0.9999             |
| 0.5100         | 0.9979             | 0.5300           | 1.0017             |
| 0.7200         | 0.9988             | 0.7300           | 1.0029             |
| 0.9100         | 0.9984             | 0.9400           | 1.0032             |
| 1.1100         | 1.0021             | 1.1500           | 0.9987             |
| 1.3000         | 1.0018             | 1.3500           | 0.9958             |
| 1.5300         | 1.0036             | 1.5500           | 1.0021             |
| 1.7400         | 1.0029             | 1.7500           | 1.0007             |
| 1.9400         | 1.0014             | 1.9500           | 1.0044             |
| 2.1400         | 1.0001             | 2.1600           | 1.0018             |
| 2.3500         | 1.0029             | 2.3700           | 1.0020             |
| 2.5500         | 1.0026             | 2.5800           | 1.0020             |

Flight 24 Test point 71

Sweep, deg = 20.0 Mach = 0.71 hp, ft = 24800. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 275.1 Rrho = 2512000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4674                     | 0.1494                      | 0.0608                  | 0.4 x/c          |
| Outboard station rake | 0.3440                     | 0.1234                      | 0.0458                  | 0.4 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.2818 | 0.0400           | 0.3806 |
| 0.0500         | 0.3028 | 0.0700           | 0.3321 |
| 0.1100         | 0.5590 | 0.1200           | 0.6304 |
| 0.1700         | 0.6967 | 0.1800           | 0.7612 |
| 0.2200         | 0.7660 | 0.2100           | 0.8378 |
| 0.2700         | 0.8276 | 0.2700           | 0.9143 |
| 0.3200         | 0.8826 | 0.3100           | 0.9645 |
| 0.3600         | 0.9303 | 0.3700           | 0.9916 |
| 0.4100         | 0.9644 | 0.4200           | 0.9982 |
| 0.5100         | 0.9982 | 0.5300           | 0.9989 |
| 0.7200         | 1.0025 | 0.7300           | 1.0013 |
| 0.9100         | 1.0024 | 0.9400           | 1.0033 |
| 1.1100         | 1.0041 | 1.1500           | 0.9983 |
| 1.3000         | 1.0045 | 1.3500           | 0.9952 |
| 1.5300         | 1.0039 | 1.5500           | 1.0014 |
| 1.7400         | 1.0038 | 1.7500           | 1.0029 |
| 1.9400         | 1.0036 | 1.9500           | 1.0031 |
| 2.1400         | 1.0037 | 2.1600           | 1.0020 |
| 2.3500         | 1.0055 | 2.3700           | 1.0022 |
| 2.5500         | 1.0035 | 2.5800           | 1.0016 |

Flight 24 Test point 72

Sweep, deg = 20.0 Mach = 0.79 hp, ft = 34700. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 221.9 Rrho = 1981000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7081                     | 0.2760                      | 0.0854                  | 0.4 x/c          |
| Outboard station rake | 0.6306                     | 0.2302                      | 0.0772                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.6116             | 0.0400           | 0.6617             |
| 0.0500         | 0.6047             | 0.0700           | 0.6492             |
| 0.1100         | 0.4633             | 0.1200           | 0.4813             |
| 0.1700         | 0.3221             | 0.1800           | 0.2765             |
| 0.2200         | 0.1353             | 0.2100           | 0.2637             |
| 0.2700         | 0.4018             | 0.2700           | 0.5216             |
| 0.3200         | 0.5646             | 0.3100           | 0.6697             |
| 0.3600         | 0.6906             | 0.3700           | 0.7953             |
| 0.4100         | 0.7964             | 0.4200           | 0.8965             |
| 0.5100         | 0.9498             | 0.5300           | 0.9956             |
| 0.7200         | 1.0026             | 0.7300           | 1.0037             |
| 0.9100         | 1.0035             | 0.9400           | 1.0061             |
| 1.1100         | 1.0052             | 1.1500           | 0.9997             |
| 1.3000         | 1.0031             | 1.3500           | 0.9973             |
| 1.5300         | 1.0061             | 1.5500           | 1.0013             |
| 1.7400         | 1.0044             | 1.7500           | 1.0009             |
| 1.9400         | 1.0013             | 1.9500           | 1.0023             |
| 2.1400         | 0.9920             | 2.1600           | 0.9975             |
| 2.3500         | 0.9924             | 2.3700           | 0.9953             |
| 2.5500         | 0.9895             | 2.5800           | 0.9959             |



Flight 24 Test point 73

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 222.1 Rrho = 1981000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6402                     | 0.2469                      | 0.0747                  | 0.4 x/c          |
| Outboard station rake | 0.4384                     | 0.2035                      | 0.0644                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5197             | 0.0400           | 0.5631             |
| 0.0500         | 0.4958             | 0.0700           | 0.5250             |
| 0.1100         | 0.3601             | 0.1200           | 0.2902             |
| 0.1700         | 0.1704             | 0.1800           | 0.3166             |
| 0.2200         | 0.4005             | 0.2100           | 0.4974             |
| 0.2700         | 0.5592             | 0.2700           | 0.6745             |
| 0.3200         | 0.6826             | 0.3100           | 0.8042             |
| 0.3600         | 0.7953             | 0.3700           | 0.9134             |
| 0.4100         | 0.8850             | 0.4200           | 0.9773             |
| 0.5100         | 0.9923             | 0.5300           | 1.0071             |
| 0.7200         | 1.0040             | 0.7300           | 1.0075             |
| 0.9100         | 1.0046             | 0.9400           | 1.0083             |
| 1.1100         | 1.0064             | 1.1500           | 1.0035             |
| 1.3000         | 1.0069             | 1.3500           | 1.0003             |
| 1.5300         | 1.0062             | 1.5500           | 1.0061             |
| 1.7400         | 1.0060             | 1.7500           | 1.0047             |
| 1.9400         | 0.9964             | 1.9500           | 0.9987             |
| 2.1400         | 0.9908             | 2.1600           | 0.9951             |
| 2.3500         | 0.9910             | 2.3700           | 0.9948             |
| 2.5500         | 0.9877             | 2.5800           | 0.9966             |

Flight 25 Test point 1

Sweep, deg = 20.0 Mach = 0.71 hp, ft = 34900. Angle of attack, deg = 3.4  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 173.9 Rnpu = 1703000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 1.2124                     | 0.2388                      | 0.0943                  | 0.4 x/c          |
| Outboard station rake | 0.7207                     | 0.2016                      | 0.0834                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3652             | 0.0400           | 0.5954             |
| 0.0500         | 0.0440             | 0.0700           | 0.4093             |
| 0.1100         | 0.4223             | 0.1200           | 0.3316             |
| 0.1700         | 0.5630             | 0.1800           | 0.5389             |
| 0.2200         | 0.6309             | 0.2100           | 0.6181             |
| 0.2700         | 0.6828             | 0.2700           | 0.7047             |
| 0.3200         | 0.7367             | 0.3100           | 0.7763             |
| 0.3600         | 0.7817             | 0.3700           | 0.8364             |
| 0.4100         | 0.8245             | 0.4200           | 0.8924             |
| 0.5100         | 0.8974             | 0.5300           | 0.9714             |
| 0.7200         | 0.9943             | 0.7300           | 1.0012             |
| 0.9100         | 0.9969             | 0.9400           | 1.0048             |
| 1.1100         | 0.9990             | 1.1500           | 0.9965             |
| 1.3000         | 1.0004             | 1.3500           | 0.9896             |
| 1.5300         | 1.0019             | 1.5500           | 1.0021             |
| 1.7400         | 1.0021             | 1.7500           | 1.0012             |
| 1.9400         | 0.9985             | 1.9500           | 1.0024             |
| 2.1400         | 0.9996             | 2.1600           | 0.9984             |
| 2.3500         | 1.0006             | 2.3700           | 1.0017             |
| 2.5500         | 1.0011             | 2.5800           | 1.0022             |

Flight 25 Test point 2

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 170.1 Rrho = 1681000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4324                     | 0.1305                      | 0.0518                  | 0.4 x/c          |
| Outboard station rake | 0.3290                     | 0.1180                      | 0.0428                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.1312             | 0.0400           | 0.2870             |
| 0.0500         | 0.4026             | 0.0700           | 0.3972             |
| 0.1100         | 0.6125             | 0.1200           | 0.6582             |
| 0.1700         | 0.7479             | 0.1800           | 0.7814             |
| 0.2200         | 0.8131             | 0.2100           | 0.8549             |
| 0.2700         | 0.8757             | 0.2700           | 0.9321             |
| 0.3200         | 0.9237             | 0.3100           | 0.9801             |
| 0.3600         | 0.9629             | 0.3700           | 0.9939             |
| 0.4100         | 0.9805             | 0.4200           | 0.9984             |
| 0.5100         | 0.9920             | 0.5300           | 1.0025             |
| 0.7200         | 0.9976             | 0.7300           | 1.0011             |
| 0.9100         | 0.9977             | 0.9400           | 1.0045             |
| 1.1100         | 1.0021             | 1.1500           | 0.9955             |
| 1.3000         | 1.0011             | 1.3500           | 0.9915             |
| 1.5300         | 1.0020             | 1.5500           | 1.0021             |
| 1.7400         | 1.0008             | 1.7500           | 1.0009             |
| 1.9400         | 1.0011             | 1.9500           | 1.0023             |
| 2.1400         | 1.0008             | 2.1600           | 1.0023             |
| 2.3500         | 1.0021             | 2.3700           | 1.0009             |
| 2.5500         | 1.0028             | 2.5800           | 1.0041             |

Flight 25 Test point 3

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.6 QBAR, lb/ft<sup>2</sup> = 172.5 RnpU = 1691000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5005                     | 0.1518                      | 0.0630                  | 0.4 x/c          |
| Outboard station rake | 0.3711                     | 0.1229                      | 0.0464                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3043             | 0.0400           | 0.3839             |
| 0.0500         | 0.3031             | 0.0700           | 0.3416             |
| 0.1100         | 0.5646             | 0.1200           | 0.6342             |
| 0.1700         | 0.6968             | 0.1800           | 0.7649             |
| 0.2200         | 0.7607             | 0.2100           | 0.8355             |
| 0.2700         | 0.8200             | 0.2700           | 0.9102             |
| 0.3200         | 0.8756             | 0.3100           | 0.9662             |
| 0.3600         | 0.9258             | 0.3700           | 0.9872             |
| 0.4100         | 0.9544             | 0.4200           | 0.9966             |
| 0.5100         | 0.9908             | 0.5300           | 1.0038             |
| 0.7200         | 0.9976             | 0.7300           | 1.0035             |
| 0.9100         | 0.9977             | 0.9400           | 1.0042             |
| 1.1100         | 0.9999             | 1.1500           | 0.9987             |
| 1.3000         | 1.0003             | 1.3500           | 0.9920             |
| 1.5300         | 1.0057             | 1.5500           | 1.0016             |
| 1.7400         | 1.0016             | 1.7500           | 1.0013             |
| 1.9400         | 1.0032             | 1.9500           | 1.0038             |
| 2.1400         | 1.0002             | 2.1600           | 1.0016             |
| 2.3500         | 1.0005             | 2.3700           | 1.0020             |
| 2.5500         | 1.0025             | 2.5800           | 1.0037             |

Flight 25 Test point 4

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 35400. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 166.3 Rnpu = 1643000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4132                     | 0.0997                      | 0.0494                  | 0.4 x/c          |
| Outboard station rake | 0.3082                     | 0.0837                      | 0.0363                  | 0.4 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5350 | 0.0400           | 0.5505 |
| 0.0500         | 0.6020 | 0.0700           | 0.6486 |
| 0.1100         | 0.7077 | 0.1200           | 0.7672 |
| 0.1700         | 0.7919 | 0.1800           | 0.8566 |
| 0.2200         | 0.8443 | 0.2100           | 0.9081 |
| 0.2700         | 0.8995 | 0.2700           | 0.9673 |
| 0.3200         | 0.9435 | 0.3100           | 0.9997 |
| 0.3600         | 0.9808 | 0.3700           | 1.0017 |
| 0.4100         | 0.9913 | 0.4200           | 1.0011 |
| 0.5100         | 0.9955 | 0.5300           | 1.0045 |
| 0.7200         | 1.0020 | 0.7300           | 1.0020 |
| 0.9100         | 0.9973 | 0.9400           | 1.0046 |
| 1.1100         | 1.0006 | 1.1500           | 0.9992 |
| 1.3000         | 1.0013 | 1.3500           | 0.9915 |
| 1.5300         | 1.0049 | 1.5500           | 1.0038 |
| 1.7400         | 1.0020 | 1.7500           | 1.0061 |
| 1.9400         | 1.0017 | 1.9500           | 1.0060 |
| 2.1400         | 0.9987 | 2.1600           | 1.0040 |
| 2.3500         | 1.0025 | 2.3700           | 1.0018 |
| 2.5500         | 1.0022 | 2.5800           | 1.0066 |

Flight 25 Test point 5

Sweep, deg = 25.3 Mach = 0.71 hp, ft = 35000. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 174.1 Rrho = 1695000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4388                     | 0.1186                      | 0.0574                  | 0.4 x/c          |
| Outboard station rake | 0.3247                     | 0.0895                      | 0.0388                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4773             | 0.0400           | 0.5202             |
| 0.0500         | 0.5553             | 0.0700           | 0.6249             |
| 0.1100         | 0.6602             | 0.1200           | 0.7507             |
| 0.1700         | 0.7489             | 0.1800           | 0.8401             |
| 0.2200         | 0.8010             | 0.2100           | 0.8934             |
| 0.2700         | 0.8537             | 0.2700           | 0.9532             |
| 0.3200         | 0.9020             | 0.3100           | 0.9881             |
| 0.3600         | 0.9473             | 0.3700           | 0.9993             |
| 0.4100         | 0.9733             | 0.4200           | 1.0015             |
| 0.5100         | 0.9975             | 0.5300           | 1.0031             |
| 0.7200         | 1.0004             | 0.7300           | 1.0038             |
| 0.9100         | 1.0016             | 0.9400           | 1.0031             |
| 1.1100         | 1.0035             | 1.1500           | 0.9977             |
| 1.3000         | 1.0022             | 1.3500           | 0.9910             |
| 1.5300         | 1.0053             | 1.5500           | 1.0019             |
| 1.7400         | 1.0057             | 1.7500           | 1.0019             |
| 1.9400         | 1.0038             | 1.9500           | 1.0020             |
| 2.1400         | 1.0009             | 2.1600           | 1.0016             |
| 2.3500         | 1.0031             | 2.3700           | 1.0013             |
| 2.5500         | 1.0027             | 2.5800           | 1.0038             |

Flight 25 Test point 6

Sweep, deg = 30.2 Mach = 0.70 hp, ft = 35300. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 167.8 Rrho = 1650000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4237                     | 0.0960                      | 0.0492                  | 0.4 x/c          |
| Outboard station rake | 0.3199                     | 0.0786                      | 0.0356                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.6091             | 0.0400           | 0.6435             |
| 0.0500         | 0.6438             | 0.0700           | 0.6920             |
| 0.1100         | 0.7112             | 0.1200           | 0.7864             |
| 0.1700         | 0.7923             | 0.1800           | 0.8536             |
| 0.2200         | 0.8419             | 0.2100           | 0.9049             |
| 0.2700         | 0.8998             | 0.2700           | 0.9605             |
| 0.3200         | 0.9371             | 0.3100           | 0.9938             |
| 0.3600         | 0.9714             | 0.3700           | 0.9991             |
| 0.4100         | 0.9877             | 0.4200           | 0.9988             |
| 0.5100         | 0.9977             | 0.5300           | 1.0046             |
| 0.7200         | 1.0006             | 0.7300           | 1.0013             |
| 0.9100         | 0.9969             | 0.9400           | 1.0029             |
| 1.1100         | 1.0013             | 1.1500           | 0.9963             |
| 1.3000         | 1.0029             | 1.3500           | 0.9871             |
| 1.5300         | 1.0037             | 1.5500           | 1.0010             |
| 1.7400         | 1.0036             | 1.7500           | 1.0009             |
| 1.9400         | 1.0016             | 1.9500           | 1.0078             |
| 2.1400         | 1.0002             | 2.1600           | 1.0020             |
| 2.3500         | 1.0008             | 2.3700           | 1.0019             |
| 2.5500         | 1.0029             | 2.5800           | 1.0025             |

Flight 25 Test point 7

Sweep, deg = 30.1 Mach = 0.70 hp, ft = 34800. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 174.5 Rrho = 1702000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4437                     | 0.1088                      | 0.0552                  | 0.4 x/c          |
| Outboard station rake | 0.3239                     | 0.0811                      | 0.0370                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5778             | 0.0400           | 0.6320             |
| 0.0500         | 0.6174             | 0.0700           | 0.6824             |
| 0.1100         | 0.6906             | 0.1200           | 0.7762             |
| 0.1700         | 0.7658             | 0.1800           | 0.8500             |
| 0.2200         | 0.8131             | 0.2100           | 0.8936             |
| 0.2700         | 0.8689             | 0.2700           | 0.9513             |
| 0.3200         | 0.9069             | 0.3100           | 0.9880             |
| 0.3600         | 0.9483             | 0.3700           | 0.9971             |
| 0.4100         | 0.9726             | 0.4200           | 0.9988             |
| 0.5100         | 0.9932             | 0.5300           | 1.0035             |
| 0.7200         | 0.9993             | 0.7300           | 1.0033             |
| 0.9100         | 0.9966             | 0.9400           | 1.0055             |
| 1.1100         | 1.0013             | 1.1500           | 0.9988             |
| 1.3000         | 1.0027             | 1.3500           | 0.9913             |
| 1.5300         | 1.0057             | 1.5500           | 1.0021             |
| 1.7400         | 1.0028             | 1.7500           | 1.0025             |
| 1.9400         | 0.9993             | 1.9500           | 1.0049             |
| 2.1400         | 1.0002             | 2.1600           | 1.0020             |
| 2.3500         | 0.9984             | 2.3700           | 1.0002             |
| 2.5500         | 1.0005             | 2.5800           | 1.0019             |



Flight 25 Test point 8

Sweep, deg = 29.7 Mach = 0.75 hp, ft = 35400. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 192.4 R<sub>npu</sub> = 1780000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4759                     | 0.1171                      | 0.0581                  | 0.4 x/c          |
| Outboard station rake | 0.3208                     | 0.0838                      | 0.0368                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5595             | 0.0400           | 0.6116             |
| 0.0500         | 0.6010             | 0.0700           | 0.6697             |
| 0.1100         | 0.6759             | 0.1200           | 0.7690             |
| 0.1700         | 0.7558             | 0.1800           | 0.8422             |
| 0.2200         | 0.8000             | 0.2100           | 0.9012             |
| 0.2700         | 0.8539             | 0.2700           | 0.9586             |
| 0.3200         | 0.8946             | 0.3100           | 0.9942             |
| 0.3600         | 0.9404             | 0.3700           | 0.9989             |
| 0.4100         | 0.9677             | 0.4200           | 1.0007             |
| 0.5100         | 0.9915             | 0.5300           | 1.0018             |
| 0.7200         | 0.9992             | 0.7300           | 1.0014             |
| 0.9100         | 0.9987             | 0.9400           | 1.0026             |
| 1.1100         | 1.0015             | 1.1500           | 0.9978             |
| 1.3000         | 1.0017             | 1.3500           | 0.9924             |
| 1.5000         | 1.0051             | 1.5500           | 1.0033             |
| 1.7400         | 1.0010             | 1.7500           | 0.9989             |
| 1.9400         | 0.9984             | 1.9500           | 1.0045             |
| 2.1400         | 1.0010             | 2.1600           | 1.0012             |
| 2.3500         | 1.0012             | 2.3700           | 1.0008             |
| 2.5500         | 1.0006             | 2.5800           | 1.0015             |

Flight 25 Test point 9

Sweep, deg = 29.7 Mach = 0.75 hp, ft = 34900. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 194.8 Rnpu = 1804000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5479                     | 0.1359                      | 0.0683                  | 0.4 x/c          |
| Outboard station rake | 0.4334                     | 0.1080                      | 0.0495                  | 0.4 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5465 | 0.0400           | 0.5545 |
| 0.0500         | 0.5793 | 0.0700           | 0.6182 |
| 0.1100         | 0.6398 | 0.1200           | 0.7073 |
| 0.1700         | 0.7246 | 0.1800           | 0.7715 |
| 0.2200         | 0.7627 | 0.2100           | 0.8311 |
| 0.2700         | 0.8156 | 0.2700           | 0.8940 |
| 0.3200         | 0.8565 | 0.3100           | 0.9440 |
| 0.3600         | 0.9005 | 0.3700           | 0.9731 |
| 0.4100         | 0.9327 | 0.4200           | 0.9918 |
| 0.5100         | 0.9817 | 0.5300           | 1.0017 |
| 0.7200         | 1.0002 | 0.7300           | 1.0028 |
| 0.9100         | 0.9989 | 0.9400           | 1.0031 |
| 1.1100         | 1.0012 | 1.1500           | 0.9984 |
| 1.3000         | 1.0029 | 1.3500           | 0.9914 |
| 1.5300         | 1.0047 | 1.5500           | 1.0021 |
| 1.7400         | 1.0020 | 1.7500           | 0.9990 |
| 1.9400         | 1.0012 | 1.9500           | 1.0046 |
| 2.1400         | 1.0031 | 2.1600           | 1.0011 |
| 2.3500         | 1.0028 | 2.3700           | 1.0002 |
| 2.5500         | 1.0014 | 2.5800           | 1.0040 |

Flight 25 Test point 10

Sweep, deg = 25.3 Mach = 0.75 hp, ft = 34500. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 199.8 Rrho = 1839000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4563                     | 0.1288                      | 0.0597                  | 0.4 x/c          |
| Outboard station rake | 0.3206                     | 0.0956                      | 0.0400                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4193             | 0.0400           | 0.4720             |
| 0.0500         | 0.5175             | 0.0700           | 0.6021             |
| 0.1100         | 0.6347             | 0.1200           | 0.7258             |
| 0.1700         | 0.7158             | 0.1800           | 0.8207             |
| 0.2200         | 0.7796             | 0.2100           | 0.8854             |
| 0.2700         | 0.8449             | 0.2700           | 0.9520             |
| 0.3200         | 0.8954             | 0.3100           | 0.9904             |
| 0.3600         | 0.9449             | 0.3700           | 0.9978             |
| 0.4100         | 0.9748             | 0.4200           | 0.9996             |
| 0.5100         | 0.9987             | 0.5300           | 1.0036             |
| 0.7200         | 0.9989             | 0.7300           | 1.0021             |
| 0.9100         | 0.9986             | 0.9400           | 1.0039             |
| 1.1100         | 1.0033             | 1.1500           | 0.9971             |
| 1.3000         | 1.0034             | 1.3500           | 0.9924             |
| 1.5300         | 1.0053             | 1.5500           | 0.9991             |
| 1.7400         | 1.0046             | 1.7500           | 1.0030             |
| 1.9400         | 1.0044             | 1.9500           | 1.0043             |
| 2.1400         | 1.0015             | 2.1600           | 1.0015             |
| 2.3500         | 1.0016             | 2.3700           | 1.0018             |
| 2.5500         | 1.0049             | 2.5800           | 1.0035             |

Flight 25 Test point 11

Sweep, deg = 25.2 Mach = 0.75 hp, ft = 34000. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 204.7 R<sub>rho</sub> = 1879000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4594                     | 0.1297                      | 0.0607                  | 0.4 x/c          |
| Outboard station rake | 0.3256                     | 0.1007                      | 0.0415                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4333             | 0.0400           | 0.4316             |
| 0.0500         | 0.5263             | 0.0700           | 0.5798             |
| 0.1100         | 0.6343             | 0.1200           | 0.7143             |
| 0.1700         | 0.7224             | 0.1800           | 0.8132             |
| 0.2200         | 0.7824             | 0.2100           | 0.8734             |
| 0.2700         | 0.8381             | 0.2700           | 0.9397             |
| 0.3200         | 0.8862             | 0.3100           | 0.9838             |
| 0.3600         | 0.9356             | 0.3700           | 0.9964             |
| 0.4100         | 0.9694             | 0.4200           | 1.0029             |
| 0.5100         | 0.9969             | 0.5300           | 1.0045             |
| 0.7200         | 1.0022             | 0.7300           | 1.0030             |
| 0.9100         | 0.9998             | 0.9400           | 1.0039             |
| 1.1100         | 1.0024             | 1.1500           | 0.9961             |
| 1.3000         | 1.0057             | 1.3500           | 0.9946             |
| 1.5300         | 1.0013             | 1.5500           | 1.0022             |
| 1.7400         | 1.0030             | 1.7500           | 1.0018             |
| 1.9400         | 1.0037             | 1.9500           | 1.0053             |
| 2.1400         | 1.0054             | 2.1600           | 1.0000             |
| 2.3500         | 1.0043             | 2.3700           | 1.0019             |
| 2.5500         | 1.0059             | 2.5800           | 1.0035             |

Flight 25 Test point 12

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 34700. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 196.5 Rnpu = 1820000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.4220                     | 0.1386                      | 0.0550                  | 0.4 x/c          |
| Outboard station rake | 0.3406                     | 0.1306                      | 0.0461                  | 0.4 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.2800 | 0.0400           | 0.4373 |
| 0.0500         | 0.3205 | 0.0700           | 0.2297 |
| 0.1100         | 0.5635 | 0.1200           | 0.5916 |
| 0.1700         | 0.7152 | 0.1800           | 0.7349 |
| 0.2200         | 0.7910 | 0.2100           | 0.8194 |
| 0.2700         | 0.8580 | 0.2700           | 0.9050 |
| 0.3200         | 0.9166 | 0.3100           | 0.9637 |
| 0.3600         | 0.9614 | 0.3700           | 0.9936 |
| 0.4100         | 0.9855 | 0.4200           | 0.9973 |
| 0.5100         | 0.9994 | 0.5300           | 1.0020 |
| 0.7200         | 1.0002 | 0.7300           | 1.0000 |
| 0.9100         | 0.9987 | 0.9400           | 1.0040 |
| 1.1100         | 1.0002 | 1.1500           | 0.9956 |
| 1.3000         | 1.0003 | 1.3500           | 0.9921 |
| 1.5300         | 1.0044 | 1.5500           | 1.0002 |
| 1.7400         | 1.0020 | 1.7500           | 1.0029 |
| 1.9400         | 1.0049 | 1.9500           | 1.0056 |
| 2.1400         | 1.0019 | 2.1600           | 1.0021 |
| 2.3500         | 1.0010 | 2.3700           | 1.0007 |
| 2.5500         | 1.0016 | 2.5800           | 1.0015 |

Flight 25 Test point 13

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 34600. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 198.0 Rrho = 1831000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5488                     | 0.1528                      | 0.0643                  | 0.4 x/c          |
| Outboard station rake | 0.4261                     | 0.1260                      | 0.0483                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2668             | 0.0400           | 0.3269             |
| 0.0500         | 0.3388             | 0.0700           | 0.3885             |
| 0.1100         | 0.5749             | 0.1200           | 0.6510             |
| 0.1700         | 0.6992             | 0.1800           | 0.7732             |
| 0.2200         | 0.7685             | 0.2100           | 0.8352             |
| 0.2700         | 0.8302             | 0.2700           | 0.9042             |
| 0.3200         | 0.8740             | 0.3100           | 0.9473             |
| 0.3600         | 0.9178             | 0.3700           | 0.9731             |
| 0.4100         | 0.9464             | 0.4200           | 0.9893             |
| 0.5100         | 0.9842             | 0.5300           | 0.9996             |
| 0.7200         | 0.9981             | 0.7300           | 1.0011             |
| 0.9100         | 0.9983             | 0.9400           | 1.0063             |
| 1.1100         | 1.0014             | 1.1500           | 0.9949             |
| 1.3000         | 1.0024             | 1.3500           | 0.9946             |
| 1.5300         | 1.0020             | 1.5500           | 1.0019             |
| 1.7400         | 1.0057             | 1.7500           | 1.0016             |
| 1.9400         | 1.0028             | 1.9500           | 1.0053             |
| 2.1400         | 1.0016             | 2.1600           | 1.0013             |
| 2.3500         | 0.9997             | 2.3700           | 0.9999             |
| 2.5500         | 1.0037             | 2.5800           | 1.0041             |

Flight 25 Test point 14

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 223.6 Rrho = 1950000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6445                     | 0.2503                      | 0.0757                  | 0.4 x/c          |
| Outboard station rake | 0.5169                     | 0.2171                      | 0.0677                  | 0.4 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.5296 | 0.0400           | 0.5638 |
| 0.0500         | 0.5014 | 0.0700           | 0.5420 |
| 0.1100         | 0.3635 | 0.1200           | 0.3380 |
| 0.1700         | 0.1583 | 0.1800           | 0.2204 |
| 0.2200         | 0.3930 | 0.2100           | 0.4359 |
| 0.2700         | 0.5550 | 0.2700           | 0.6250 |
| 0.3200         | 0.6768 | 0.3100           | 0.7621 |
| 0.3600         | 0.7842 | 0.3700           | 0.8826 |
| 0.4100         | 0.8745 | 0.4200           | 0.9625 |
| 0.5100         | 0.9870 | 0.5300           | 1.0046 |
| 0.7200         | 1.0062 | 0.7300           | 1.0067 |
| 0.9100         | 1.0063 | 0.9400           | 1.0077 |
| 1.1100         | 1.0072 | 1.1500           | 1.0023 |
| 1.3000         | 1.0059 | 1.3500           | 0.9983 |
| 1.5300         | 1.0082 | 1.5500           | 1.0046 |
| 1.7400         | 1.0037 | 1.7500           | 1.0013 |
| 1.9400         | 0.9950 | 1.9500           | 0.9981 |
| 2.1400         | 0.9909 | 2.1600           | 0.9928 |
| 2.3500         | 0.9884 | 2.3700           | 0.9919 |
| 2.5500         | 0.9882 | 2.5800           | 0.9918 |

Flight 25 Test point 15

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 34800. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 227.2 Rrho = 1969000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7034                     | 0.2826                      | 0.0877                  | 0.4 x/c          |
| Outboard station rake | 0.5347                     | 0.2338                      | 0.0764                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.6123             | 0.0400           | 0.6474             |
| 0.0500         | 0.6148             | 0.0700           | 0.6365             |
| 0.1100         | 0.4730             | 0.1200           | 0.4465             |
| 0.1700         | 0.3328             | 0.1800           | 0.2473             |
| 0.2200         | 0.1273             | 0.2100           | 0.2919             |
| 0.2700         | 0.3948             | 0.2700           | 0.5208             |
| 0.3200         | 0.5535             | 0.3100           | 0.6658             |
| 0.3600         | 0.6720             | 0.3700           | 0.7902             |
| 0.4100         | 0.7744             | 0.4200           | 0.9012             |
| 0.5100         | 0.9340             | 0.5300           | 0.9962             |
| 0.7200         | 1.0050             | 0.7300           | 1.0044             |
| 0.9100         | 1.0058             | 0.9400           | 1.0063             |
| 1.1100         | 1.0069             | 1.1500           | 1.0003             |
| 1.3000         | 1.0054             | 1.3500           | 0.9968             |
| 1.5300         | 1.0051             | 1.5500           | 1.0034             |
| 1.7400         | 1.0048             | 1.7500           | 1.0026             |
| 1.9400         | 0.9989             | 1.9500           | 1.0009             |
| 2.1400         | 0.9905             | 2.1600           | 0.9964             |
| 2.3500         | 0.9883             | 2.3700           | 0.9949             |
| 2.5500         | 0.9892             | 2.5800           | 0.9940             |



Flight 25 Test point 16

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 35500. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 216.8 Rrho = 1901000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5191                     | 0.2306                      | 0.0744                  | 0.4 x/c          |
| Outboard station rake | 0.4375                     | 0.2031                      | 0.0648                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5102             | 0.0400           | 0.5683             |
| 0.0500         | 0.4737             | 0.0700           | 0.5286             |
| 0.1100         | 0.2932             | 0.1200           | 0.2912             |
| 0.1700         | 0.2956             | 0.1800           | 0.3048             |
| 0.2200         | 0.4765             | 0.2100           | 0.4943             |
| 0.2700         | 0.6202             | 0.2700           | 0.6706             |
| 0.3200         | 0.7309             | 0.3100           | 0.8015             |
| 0.3600         | 0.8269             | 0.3700           | 0.9107             |
| 0.4100         | 0.9053             | 0.4200           | 0.9775             |
| 0.5100         | 0.9926             | 0.5300           | 1.0066             |
| 0.7200         | 1.0043             | 0.7300           | 1.0053             |
| 0.9100         | 1.0022             | 0.9400           | 1.0073             |
| 1.1100         | 1.0048             | 1.1500           | 1.0022             |
| 1.3000         | 1.0057             | 1.3500           | 0.9979             |
| 1.5300         | 1.0040             | 1.5500           | 1.0046             |
| 1.7400         | 1.0035             | 1.7500           | 1.0039             |
| 1.9400         | 1.0006             | 1.9500           | 1.0010             |
| 2.1400         | 0.9961             | 2.1600           | 0.9976             |
| 2.3500         | 0.9941             | 2.3700           | 0.9969             |
| 2.5500         | 0.9921             | 2.5800           | 0.9993             |

Flight 25 Test point 17

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 35700. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 214.8 Rrho = 1887000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.6443                     | 0.2569                      | 0.0722                  | 0.4 x/c          |
| Outboard station rake | 0.5196                     | 0.2210                      | 0.0681                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.5338             | 0.0400           | 0.5462             |
| 0.0500         | 0.5170             | 0.0700           | 0.5252             |
| 0.1100         | 0.3738             | 0.1200           | 0.3260             |
| 0.1700         | 0.0496             | 0.1800           | 0.2080             |
| 0.2200         | 0.3816             | 0.2100           | 0.4405             |
| 0.2700         | 0.5423             | 0.2700           | 0.6200             |
| 0.3200         | 0.6708             | 0.3100           | 0.7548             |
| 0.3600         | 0.7761             | 0.3700           | 0.8751             |
| 0.4100         | 0.8674             | 0.4200           | 0.9571             |
| 0.5100         | 0.9880             | 0.5300           | 1.0041             |
| 0.7200         | 1.0058             | 0.7300           | 1.0052             |
| 0.9100         | 1.0062             | 0.9400           | 1.0064             |
| 1.1100         | 1.0081             | 1.1500           | 1.0016             |
| 1.3000         | 1.0069             | 1.3500           | 0.9988             |
| 1.5300         | 1.0064             | 1.5500           | 1.0045             |
| 1.7400         | 1.0044             | 1.7500           | 1.0025             |
| 1.9400         | 0.9941             | 1.9500           | 0.9996             |
| 2.1400         | 0.9900             | 2.1600           | 0.9925             |
| 2.3500         | 0.9883             | 2.3700           | 0.9923             |
| 2.5500         | 0.9898             | 2.5800           | 0.9925             |

Flight 25 Test point 18

Sweep, deg = 25.0 Mach = 0.80 hp, ft = 34900. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 224.7 Rrho = 196000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5059                     | 0.2094                      | 0.0642                  | 0.4 x/c          |
| Outboard station rake | 0.4281                     | 0.1890                      | 0.0577                  | 0.4 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | 0.3601 | 0.0400           | 0.4059 |
| 0.0500         | 0.2810 | 0.0700           | 0.3057 |
| 0.1100         | 0.2558 | 0.1200           | 0.3113 |
| 0.1700         | 0.4900 | 0.1800           | 0.5107 |
| 0.2200         | 0.6099 | 0.2100           | 0.6439 |
| 0.2700         | 0.7210 | 0.2700           | 0.7755 |
| 0.3200         | 0.8170 | 0.3100           | 0.8727 |
| 0.3600         | 0.8945 | 0.3700           | 0.9478 |
| 0.4100         | 0.9535 | 0.4200           | 0.9930 |
| 0.5100         | 1.0018 | 0.5300           | 1.0062 |
| 0.7200         | 1.0049 | 0.7300           | 1.0076 |
| 0.9100         | 1.0048 | 0.9400           | 1.0074 |
| 1.1100         | 1.0054 | 1.1500           | 1.0031 |
| 1.3000         | 1.0066 | 1.3500           | 0.9988 |
| 1.5300         | 1.0062 | 1.5500           | 1.0050 |
| 1.7400         | 1.0051 | 1.7500           | 1.0051 |
| 1.9400         | 0.9978 | 1.9500           | 0.9986 |
| 2.1400         | 0.9899 | 2.1600           | 0.9940 |
| 2.3500         | 0.9889 | 2.3700           | 0.9894 |
| 2.5500         | 0.9886 | 2.5800           | 0.9917 |

Flight 25 Test point 19

Sweep, deg = 25.0 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 224.9 Rrho = 1956000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.7079                     | 0.2476                      | 0.0765                  | 0.4 x/c          |
| Outboard station rake | 0.4250                     | 0.1893                      | 0.0587                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2395             | 0.0400           | 0.4396             |
| 0.0500         | 0.2032             | 0.0700           | 0.3471             |
| 0.1100         | 0.2284             | 0.1200           | 0.2726             |
| 0.1700         | 0.4089             | 0.1800           | 0.4903             |
| 0.2200         | 0.5255             | 0.2100           | 0.6131             |
| 0.2700         | 0.6320             | 0.2700           | 0.7452             |
| 0.3200         | 0.7233             | 0.3100           | 0.8655             |
| 0.3600         | 0.8050             | 0.3700           | 0.9618             |
| 0.4100         | 0.8779             | 0.4200           | 0.9967             |
| 0.5100         | 0.9725             | 0.5300           | 1.0048             |
| 0.7200         | 1.0014             | 0.7300           | 1.0043             |
| 0.9100         | 0.9998             | 0.9400           | 1.0050             |
| 1.1100         | 1.0009             | 1.1500           | 0.9990             |
| 1.3000         | 1.0008             | 1.3500           | 0.9960             |
| 1.5300         | 1.0026             | 1.5500           | 1.0027             |
| 1.7400         | 1.0002             | 1.7500           | 1.0014             |
| 1.9400         | 1.0024             | 1.9500           | 1.0020             |
| 2.1400         | 1.0014             | 2.1600           | 0.9973             |
| 2.3500         | 0.9968             | 2.3700           | 0.9960             |
| 2.5500         | 0.9937             | 2.5800           | 0.9948             |

Flight 25 Test point 20

Sweep, deg = 24.9 Mach = 0.81 hp, ft = 34900. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 227.1 Rrho = 1969000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.5098                     | 0.2073                      | 0.0634                  | 0.4 x/c          |
| Outboard station rake | 0.4279                     | 0.1894                      | 0.0569                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3116             | 0.0400           | 0.3993             |
| 0.0500         | 0.1880             | 0.0700           | 0.3059             |
| 0.1100         | 0.3214             | 0.1200           | 0.2964             |
| 0.1700         | 0.5150             | 0.1800           | 0.5052             |
| 0.2200         | 0.6333             | 0.2100           | 0.6414             |
| 0.2700         | 0.7358             | 0.2700           | 0.7789             |
| 0.3200         | 0.8256             | 0.3100           | 0.8775             |
| 0.3600         | 0.8967             | 0.3700           | 0.9520             |
| 0.4100         | 0.9458             | 0.4200           | 0.9937             |
| 0.5100         | 1.0001             | 0.5300           | 1.0067             |
| 0.7200         | 1.0044             | 0.7300           | 1.0071             |
| 0.9100         | 1.0043             | 0.9400           | 1.0084             |
| 1.1100         | 1.0051             | 1.1500           | 1.0027             |
| 1.3000         | 1.0046             | 1.3500           | 0.9984             |
| 1.5300         | 1.0050             | 1.5500           | 1.0035             |
| 1.7400         | 1.0042             | 1.7500           | 1.0036             |
| 1.9400         | 1.0022             | 1.9500           | 0.9984             |
| 2.1400         | 0.9920             | 2.1600           | 0.9937             |
| 2.3500         | 0.9894             | 2.3700           | 0.9913             |
| 2.5500         | 0.9887             | 2.5800           | 0.9924             |

Flight 25 Test point 21

Sweep, deg = 30.2 Mach = 0.81 hp, ft = 35000. Angle of attack, deg = 2.2  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 226.5 Rho = 1965000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9165                     | 0.3603                      | 0.1223                  | 0.4 x/c          |
| Outboard station rake | 0.4209                     | 0.1986                      | 0.0542                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.2477             | 0.0400           | 0.1192             |
| 0.0500         | 0.2336             | 0.0700           | 0.2142             |
| 0.1100         | 0.2805             | 0.1200           | 0.3454             |
| 0.1700         | 0.3397             | 0.1800           | 0.4844             |
| 0.2200         | 0.3653             | 0.2100           | 0.6076             |
| 0.2700         | 0.4364             | 0.2700           | 0.7565             |
| 0.3200         | 0.4829             | 0.3100           | 0.8681             |
| 0.3600         | 0.5482             | 0.3700           | 0.9574             |
| 0.4100         | 0.6120             | 0.4200           | 0.9993             |
| 0.5100         | 0.7352             | 0.5300           | 1.0070             |
| 0.7200         | 0.9623             | 0.7300           | 1.0052             |
| 0.9100         | 0.9989             | 0.9400           | 1.0062             |
| 1.1100         | 1.0012             | 1.1500           | 1.0011             |
| 1.3000         | 0.9999             | 1.3500           | 0.9968             |
| 1.5300         | 1.0002             | 1.5500           | 1.0032             |
| 1.7400         | 1.0009             | 1.7500           | 0.9976             |
| 1.9400         | 1.0001             | 1.9500           | 0.9943             |
| 2.1400         | 1.0006             | 2.1600           | 0.9969             |
| 2.3500         | 0.9997             | 2.3700           | 0.9956             |
| 2.5500         | 0.9985             | 2.5800           | 0.9969             |

Flight 25 Test point 22

Sweep, deg = 30.2 Mach = 0.80  $z_p$ , ft = 35100. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.3  $QBAR$ , lb/ft<sup>2</sup> = 222.4  $Rnpu$  = 1939000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9931                     | 0.2425                      | 0.1084                  | 0.4 x/c          |
| Outboard station rake | 0.5426                     | 0.1795                      | 0.0767                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.4048             | 0.0400           | 0.4067             |
| 0.0500         | 0.4309             | 0.0700           | 0.4636             |
| 0.1100         | 0.4878             | 0.1200           | 0.5378             |
| 0.1700         | 0.5445             | 0.1800           | 0.6174             |
| 0.2200         | 0.5828             | 0.2100           | 0.6654             |
| 0.2700         | 0.6335             | 0.2700           | 0.7392             |
| 0.3200         | 0.6784             | 0.3100           | 0.8041             |
| 0.3600         | 0.7284             | 0.3700           | 0.8578             |
| 0.4100         | 0.7746             | 0.4200           | 0.9131             |
| 0.5100         | 0.8736             | 0.5300           | 0.9917             |
| 0.7200         | 0.9937             | 0.7300           | 1.0054             |
| 0.9100         | 0.9983             | 0.9400           | 1.0054             |
| 1.1100         | 0.9994             | 1.1500           | 0.9962             |
| 1.3000         | 1.0000             | 1.3500           | 0.9946             |
| 1.5300         | 1.0019             | 1.5500           | 1.0020             |
| 1.7400         | 0.9998             | 1.7500           | 0.9997             |
| 1.9400         | 0.9999             | 1.9500           | 1.0023             |
| 2.1400         | 1.0019             | 2.1600           | 0.9997             |
| 2.3500         | 1.0000             | 2.3700           | 1.0010             |
| 2.5500         | 0.9989             | 2.5800           | 1.0019             |

Flight 25 Test point 23

Sweep, deg = 30.2 Mach = 0.81 hp, ft = 34600. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 229.9 Rnpu = 1992000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | 0.9577                     | 0.2970                      | 0.1152                  | 0.4 x/c          |
| Outboard station rake | 0.6750                     | 0.2568                      | 0.0820                  | 0.4 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | 0.3063             | 0.0400           | 0.1626             |
| 0.0500         | 0.3220             | 0.0700           | 0.2401             |
| 0.1100         | 0.3629             | 0.1200           | 0.3331             |
| 0.1700         | 0.4265             | 0.1800           | 0.4098             |
| 0.2200         | 0.4730             | 0.2100           | 0.4573             |
| 0.2700         | 0.5345             | 0.2700           | 0.5634             |
| 0.3200         | 0.5870             | 0.3100           | 0.6612             |
| 0.3600         | 0.6540             | 0.3700           | 0.7596             |
| 0.4100         | 0.7086             | 0.4200           | 0.8546             |
| 0.5100         | 0.8217             | 0.5300           | 0.9827             |
| 0.7200         | 0.9892             | 0.7300           | 1.0057             |
| 0.9100         | 0.9981             | 0.9400           | 1.0072             |
| 1.1100         | 1.0020             | 1.1500           | 1.0008             |
| 1.3000         | 0.9990             | 1.3500           | 0.9960             |
| 1.5300         | 1.0023             | 1.5500           | 1.0042             |
| 1.7400         | 1.0003             | 1.7500           | 1.0004             |
| 1.9400         | 1.0011             | 1.9500           | 0.9998             |
| 2.1400         | 1.0004             | 2.1600           | 0.9958             |
| 2.3500         | 0.9988             | 2.3700           | 0.9944             |
| 2.5500         | 0.9981             | 2.5800           | 0.9957             |



Flight 26 Test point 1

Sweep, deg = 20.1 Mach = 0.71 hp, ft = 34900. Angle of attack, deg = 3.7  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 173.7 Rrho = 1708000.

|                       |                               |                                |                            |                     |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7241                        | 0.2297                         | 0.095                      | 0.1 x/c             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.5457             |
| 0.0500         | *****              | 0.0700           | 0.3608             |
| 0.1100         | *****              | 0.1200           | 0.3348             |
| 0.1700         | *****              | 0.1800           | 0.5174             |
| 0.2200         | *****              | 0.2100           | 0.5851             |
| 0.2700         | *****              | 0.2700           | 0.6650             |
| 0.3200         | *****              | 0.3100           | 0.7360             |
| 0.3600         | *****              | 0.3700           | 0.7848             |
| 0.4100         | *****              | 0.4200           | 0.8344             |
| 0.5100         | *****              | 0.5300           | 0.9245             |
| 0.7200         | *****              | 0.7300           | 1.0021             |
| 0.9100         | *****              | 0.9400           | 1.0022             |
| 1.1100         | *****              | 1.1500           | 0.9949             |
| 1.3000         | *****              | 1.3500           | 0.9941             |
| 1.5300         | *****              | 1.5500           | 1.0033             |
| 1.7400         | *****              | 1.7500           | 1.0006             |
| 1.9400         | *****              | 1.9500           | 1.0039             |
| 2.1400         | *****              | 2.1600           | 0.9989             |
| 2.3500         | *****              | 2.3700           | 0.9996             |
| 2.5500         | *****              | 2.5800           | 1.0005             |

\*\*\*\*\* - no data

Flight 26 Test Point 2

Sweep, deg = 20.1 Mach = 0.71 hp, ft = 34800. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 176.7 Rrho = 1729000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7219                        | 0.1963                         | 0.0774                     | 0.1 X/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3844 |
| 0.0500         | *****  | 0.0700           | 0.1680 |
| 0.1100         | *****  | 0.1200           | 0.4949 |
| 0.1700         | *****  | 0.1800           | 0.6168 |
| 0.2200         | *****  | 0.2100           | 0.6723 |
| 0.2700         | *****  | 0.2700           | 0.7475 |
| 0.3200         | *****  | 0.3100           | 0.8060 |
| 0.3600         | *****  | 0.3700           | 0.8511 |
| 0.4100         | *****  | 0.4200           | 0.8977 |
| 0.5100         | *****  | 0.5300           | 0.9744 |
| 0.7200         | *****  | 0.7300           | 1.0009 |
| 0.9100         | *****  | 0.9400           | 1.0038 |
| 1.1100         | *****  | 1.1500           | 0.9946 |
| 1.3000         | *****  | 1.3500           | 0.9902 |
| 1.5300         | *****  | 1.5500           | 1.0030 |
| 1.7400         | *****  | 1.7500           | 1.0009 |
| 1.9400         | *****  | 1.9500           | 1.0035 |
| 2.1400         | *****  | 2.1600           | 0.9998 |
| 2.3500         | *****  | 2.3700           | 1.0004 |
| 2.5500         | *****  | 2.5800           | 1.0029 |

\*\*\*\*\* - no data

Flight 26 Test point 3

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 33300. Angle of attack, deg = 3.9  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 211.1 Rrho = 1952000.

|                       |                               |                                |                            |                     |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.9422                        | 0.5256                         | 0.1165                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.1958 |
| 0.0500         | *****  | 0.0700           | 0.2125 |
| 0.1100         | *****  | 0.1200           | 0.0829 |
| 0.1700         | *****  | 0.1800           | 0.0756 |
| 0.2200         | *****  | 0.2100           | 0.0965 |
| 0.2700         | *****  | 0.2700           | 0.1297 |
| 0.3200         | *****  | 0.3100           | 0.2505 |
| 0.3600         | *****  | 0.3700           | 0.2880 |
| 0.4100         | *****  | 0.4200           | 0.3468 |
| 0.5100         | *****  | 0.5300           | 0.5276 |
| 0.7200         | *****  | 0.7300           | 0.8421 |
| 0.9100         | *****  | 0.9400           | 0.9984 |
| 1.1100         | *****  | 1.1500           | 0.9979 |
| 1.3000         | *****  | 1.3500           | 0.9954 |
| 1.5300         | *****  | 1.5500           | 1.0019 |
| 1.7400         | *****  | 1.7500           | 1.0029 |
| 1.9400         | *****  | 1.9500           | 1.0023 |
| 2.1400         | *****  | 2.1600           | 0.9988 |
| 2.3500         | *****  | 2.3700           | 1.0008 |
| 2.5500         | *****  | 2.5800           | 1.0016 |

\*\*\*\*\* - no data

Flight 26 Test point 4

Sweep, deg = 20.1 Mach = 0.70 hp, ft = 34800. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 172.5 Rrho = 1705000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7184                        | 0.2048                         | 0.0763                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4165 |
| 0.0500         | *****  | 0.0700           | 0.0452 |
| 0.1100         | *****  | 0.1200           | 0.4709 |
| 0.1700         | *****  | 0.1800           | 0.6108 |
| 0.2200         | *****  | 0.2100           | 0.6601 |
| 0.2700         | *****  | 0.2700           | 0.7394 |
| 0.3200         | *****  | 0.3100           | 0.7990 |
| 0.3600         | *****  | 0.3700           | 0.8454 |
| 0.4100         | *****  | 0.4200           | 0.8900 |
| 0.5100         | *****  | 0.5300           | 0.9677 |
| 0.7200         | *****  | 0.7300           | 1.0017 |
| 0.9100         | *****  | 0.9400           | 1.0046 |
| 1.1100         | *****  | 1.1500           | 0.9965 |
| 1.3000         | *****  | 1.3500           | 0.9904 |
| 1.5300         | *****  | 1.5500           | 1.0029 |
| 1.7400         | *****  | 1.7500           | 1***** |
| 1.9400         | *****  | 1.9500           | 1.0036 |
| 2.1400         | *****  | 2.1600           | 0.9985 |
| 2.3500         | *****  | 2.3700           | 0.9982 |
| 2.5500         | *****  | 2.5800           | 1.0036 |

\*\*\*\*\* - no data

Flight 26 Test point 5

Sweep, deg = 25.4 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 4.2  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 171.1 Rho = 1693000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7252                                 | 0.2026                                  | 0.0872                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.2301 |
| 0.0500         | *****  | 0.0700           | 0.4154 |
| 0.1100         | *****  | 0.1200           | 0.5504 |
| 0.1700         | *****  | 0.1800           | 0.6304 |
| 0.2200         | *****  | 0.2100           | 0.6642 |
| 0.2700         | *****  | 0.2700           | 0.7269 |
| 0.3200         | *****  | 0.3100           | 0.7787 |
| 0.3600         | *****  | 0.3700           | 0.8235 |
| 0.4100         | *****  | 0.4200           | 0.8644 |
| 0.5100         | *****  | 0.5300           | 0.9444 |
| 0.7200         | *****  | 0.7300           | 1.0012 |
| 0.9100         | *****  | 0.9400           | 1.0032 |
| 1.1100         | *****  | 1.1500           | 0.9944 |
| 1.3000         | *****  | 1.3500           | 0.9918 |
| 1.5300         | *****  | 1.5500           | 1.0028 |
| 1.7400         | *****  | 1.7500           | 1.0012 |
| 1.9400         | *****  | 1.9500           | 1.0033 |
| 2.1400         | *****  | 2.1600           | 0.9988 |
| 2.3500         | *****  | 2.3700           | 1.0005 |
| 2.5500         | *****  | 2.5800           | 1.0029 |

\*\*\*\*\* - no data

Flight 26 Test point 6

Sweep, deg = 25.4 Mach = 0.70 hp, ft = 35100. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 170.9 Rrho = 1688000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5570                                 | 0.1559                                  | 0.0725                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4271 |
| 0.0500         | *****  | 0.0700           | 0.5288 |
| 0.1100         | *****  | 0.1200           | 0.6294 |
| 0.1700         | *****  | 0.1800           | 0.6889 |
| 0.2200         | *****  | 0.2100           | 0.7277 |
| 0.2700         | *****  | 0.2700           | 0.7881 |
| 0.3200         | *****  | 0.3100           | 0.8420 |
| 0.3600         | *****  | 0.3700           | 0.8820 |
| 0.4100         | *****  | 0.4200           | 0.9195 |
| 0.5100         | *****  | 0.5300           | 0.9863 |
| 0.7200         | *****  | 0.7300           | 1.0005 |
| 0.9100         | *****  | 0.9400           | 1.0060 |
| 1.1100         | *****  | 1.1500           | 0.9961 |
| 1.3000         | *****  | 1.3500           | 0.9924 |
| 1.5300         | *****  | 1.5500           | 1.0014 |
| 1.7400         | *****  | 1.7500           | 1.0034 |
| 1.9400         | *****  | 1.9500           | 1.0065 |
| 2.1400         | *****  | 2.1600           | 1.0009 |
| 2.3500         | *****  | 2.3700           | 1.0017 |
| 2.5500         | *****  | 2.5800           | 1.0048 |

\*\*\*\*\* - no data

Flight 26 Test point 7

Sweep, deg = 25.4 Mach = 0.70 hp, ft = 35700. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 164.7 Rho = 1640000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5722                        | 0.1616                         | 0.0743                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4099 |
| 0.0500         | *****  | 0.0700           | 0.5139 |
| 0.1100         | *****  | 0.1200           | 0.6095 |
| 0.1700         | *****  | 0.1800           | 0.6874 |
| 0.2200         | *****  | 0.2100           | 0.7260 |
| 0.2700         | *****  | 0.2700           | 0.7790 |
| 0.3200         | *****  | 0.3100           | 0.8324 |
| 0.3600         | *****  | 0.3700           | 0.8745 |
| 0.4100         | *****  | 0.4200           | 0.9154 |
| 0.5100         | *****  | 0.5300           | 0.9783 |
| 0.7200         | *****  | 0.7300           | 1.0036 |
| 0.9100         | *****  | 0.9400           | 1.0054 |
| 1.1100         | *****  | 1.1500           | 0.9988 |
| 1.3000         | *****  | 1.3500           | 0.9908 |
| 1.5300         | *****  | 1.5500           | 1.0040 |
| 1.7400         | *****  | 1.7500           | 1.0023 |
| 1.9400         | *****  | 1.9500           | 1.0069 |
| 2.1400         | *****  | 2.1600           | 1.0006 |
| 2.3500         | *****  | 2.3700           | 1.0032 |
| 2.5500         | *****  | 2.5800           | 1.0060 |

\*\*\*\*\* - no data

Flight 26 Test point 8

Sweep, deg = 30.4 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 4.3  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 173.0 Rho = 1705000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7335                        | 0.1871                         | 0.0913                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4908 |
| 0.0500         | *****  | 0.0700           | 0.5366 |
| 0.1100         | *****  | 0.1200           | 0.6092 |
| 0.1700         | *****  | 0.1800           | 0.6602 |
| 0.2200         | *****  | 0.2100           | 0.6816 |
| 0.2700         | *****  | 0.2700           | 0.7406 |
| 0.3200         | *****  | 0.3100           | 0.7856 |
| 0.3600         | *****  | 0.3700           | 0.8167 |
| 0.4100         | *****  | 0.4200           | 0.8565 |
| 0.5100         | *****  | 0.5300           | 0.9310 |
| 0.7200         | *****  | 0.7300           | 0.9989 |
| 0.9100         | *****  | 0.9400           | 1.0041 |
| 1.1100         | *****  | 1.1500           | 0.9949 |
| 1.3000         | *****  | 1.3500           | 0.9911 |
| 1.5300         | *****  | 1.5500           | 1.0027 |
| 1.7400         | *****  | 1.7500           | 1.0008 |
| 1.9400         | *****  | 1.9500           | 1.0027 |
| 2.1400         | *****  | 2.1600           | 0.9992 |
| 2.3500         | *****  | 2.3700           | 0.9999 |
| 2.5500         | *****  | 2.5800           | 1.0057 |

\*\*\*\*\* - no data



Flight 26 Test point 9

Sweep, deg = 30.4 Mach = 0.71 hp, ft = 34800. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.5 QBAR, lb/ft<sup>2</sup> = 177.9 RhoU = 1732000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5180                                 | 0.1369                                  | 0.0663                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5547 |
| 0.0500         | *****  | 0.0700           | 0.6001 |
| 0.1100         | *****  | 0.1200           | 0.6650 |
| 0.1700         | *****  | 0.1800           | 0.7238 |
| 0.2200         | *****  | 0.2100           | 0.7551 |
| 0.2700         | *****  | 0.2700           | 0.8181 |
| 0.3200         | *****  | 0.3100           | 0.8619 |
| 0.3600         | *****  | 0.3700           | 0.9013 |
| 0.4100         | *****  | 0.4200           | 0.9374 |
| 0.5100         | *****  | 0.5300           | 0.9944 |
| 0.7200         | *****  | 0.7300           | 1.0020 |
| 0.9100         | *****  | 0.9400           | 1.0055 |
| 1.1100         | *****  | 1.1500           | 0.9936 |
| 1.3000         | *****  | 1.3500           | 0.9910 |
| 1.5300         | *****  | 1.5500           | 1.0037 |
| 1.7400         | *****  | 1.7500           | 1***** |
| 1.9400         | *****  | 1.9500           | 1.0052 |
| 2.1400         | *****  | 2.1600           | 1.0010 |
| 2.3500         | *****  | 2.3700           | 1.0017 |
| 2.5500         | *****  | 2.5800           | 1.0019 |

\*\*\*\*\* - no data

Flight 26 Test point 10

Sweep, deg = 30.4 Mach = 0.71 hp, ft = 34800. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 176.6 Rnpu = 1731000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5559                                 | 0.1425                                  | 0.0696                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5453 |
| 0.0500         | *****  | 0.0700           | 0.5870 |
| 0.1100         | *****  | 0.1200           | 0.6614 |
| 0.1700         | *****  | 0.1800           | 0.7116 |
| 0.2200         | *****  | 0.2100           | 0.7508 |
| 0.2700         | *****  | 0.2700           | 0.8067 |
| 0.3200         | *****  | 0.3100           | 0.8544 |
| 0.3600         | *****  | 0.3700           | 0.8898 |
| 0.4100         | *****  | 0.4200           | 0.9267 |
| 0.5100         | *****  | 0.5300           | 0.9871 |
| 0.7200         | *****  | 0.7300           | 1.0019 |
| 0.9100         | *****  | 0.9400           | 1.0061 |
| 1.1100         | *****  | 1.1500           | 0.9977 |
| 1.3000         | *****  | 1.3500           | 0.9906 |
| 1.5300         | *****  | 1.5500           | 1.0040 |
| 1.7400         | *****  | 1.7500           | 1.0014 |
| 1.9400         | *****  | 1.9500           | 1.0065 |
| 2.1400         | *****  | 2.1600           | 1.0002 |
| 2.3500         | *****  | 2.3700           | 1.0014 |
| 2.5500         | *****  | 2.5800           | 1.0030 |

\*\*\*\*\* - no data

Flight 26 Test point 11

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 5.0  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 173.4 Rrho = 1711000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.8946                        | 0.1977                         | 0.1011                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5312 |
| 0.0500         | *****  | 0.0700           | 0.5719 |
| 0.1100         | *****  | 0.1200           | 0.6256 |
| 0.1700         | *****  | 0.1800           | 0.6680 |
| 0.2200         | *****  | 0.2100           | 0.6928 |
| 0.2700         | *****  | 0.2700           | 0.7356 |
| 0.3200         | *****  | 0.3100           | 0.7715 |
| 0.3600         | *****  | 0.3700           | 0.7939 |
| 0.4100         | *****  | 0.4200           | 0.8301 |
| 0.5100         | *****  | 0.5300           | 0.8936 |
| 0.7200         | *****  | 0.7300           | 0.9823 |
| 0.9100         | *****  | 0.9400           | 1.0044 |
| 1.1100         | *****  | 1.1500           | 0.9911 |
| 1.3000         | *****  | 1.3500           | 0.9900 |
| 1.5300         | *****  | 1.5500           | 0.9993 |
| 1.7400         | *****  | 1.7500           | 1.0015 |
| 1.9400         | *****  | 1.9500           | 1.0041 |
| 2.1400         | *****  | 2.1600           | 1.0009 |
| 2.3500         | *****  | 2.3700           | 0.9989 |
| 2.5500         | *****  | 2.5800           | 1.0054 |

\*\*\*\*\* - no data

Flight 26 Test point 12

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 35000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 171.2 Rrho = 1696000.

|                       | Boundary layer height, in.<br>***** | Displacement thickness, in.<br>***** | Momentum thickness, in.<br>***** | Transition strip<br>none |
|-----------------------|-------------------------------------|--------------------------------------|----------------------------------|--------------------------|
| Middle station rake   |                                     |                                      |                                  |                          |
| Outboard station rake | 0.5212                              | 0.1302                               | 0.0646                           | 0.1 x/c                  |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5835 |
| 0.0500         | *****  | 0.0700           | 0.6124 |
| 0.1100         | *****  | 0.1200           | 0.6862 |
| 0.1700         | *****  | 0.1800           | 0.7383 |
| 0.2200         | *****  | 0.2100           | 0.7658 |
| 0.2700         | *****  | 0.2700           | 0.8263 |
| 0.3200         | *****  | 0.3100           | 0.8745 |
| 0.3600         | *****  | 0.3700           | 0.9065 |
| 0.4100         | *****  | 0.4200           | 0.9400 |
| 0.5100         | *****  | 0.5300           | 0.9924 |
| 0.7200         | *****  | 0.7300           | 1.0042 |
| 0.9100         | *****  | 0.9400           | 1.0055 |
| 1.1100         | *****  | 1.1500           | 0.9950 |
| 1.3000         | *****  | 1.3500           | 0.9913 |
| 1.5300         | *****  | 1.5500           | 1.0019 |
| 1.7400         | *****  | 1.7500           | 1.0005 |
| 1.9400         | *****  | 1.9500           | 1.0057 |
| 2.1400         | *****  | 2.1600           | 0.9971 |
| 2.3500         | *****  | 2.3700           | 1.0026 |
| 2.5500         | *****  | 2.5800           | 1.0037 |

\*\*\*\*\* - no data

Flight 26 Test point 13

Sweep, deg = 34.6 Mach = 0.70 hp, ft = 35000. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 172.1 Rrho = 1701000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5627                        | 0.1359                         | 0.0677                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5690 |
| 0.0500         | *****  | 0.0700           | 0.6078 |
| 0.1100         | *****  | 0.1200           | 0.6798 |
| 0.1700         | *****  | 0.1800           | 0.7339 |
| 0.2200         | *****  | 0.2100           | 0.7601 |
| 0.2700         | *****  | 0.2700           | 0.8165 |
| 0.3200         | *****  | 0.3100           | 0.8625 |
| 0.3600         | *****  | 0.3700           | 0.8976 |
| 0.4100         | *****  | 0.4200           | 0.9319 |
| 0.5100         | *****  | 0.5300           | 0.9857 |
| 0.7200         | *****  | 0.7300           | 1.0037 |
| 0.9100         | *****  | 0.9400           | 1.0089 |
| 1.1100         | *****  | 1.1500           | 0.9973 |
| 1.3000         | *****  | 1.3500           | 0.9935 |
| 1.5300         | *****  | 1.5500           | 1.0035 |
| 1.7400         | *****  | 1.7500           | 1.0009 |
| 1.9400         | *****  | 1.9500           | 1.0049 |
| 2.1400         | *****  | 2.1600           | 0.9972 |
| 2.3500         | *****  | 2.3700           | 1.0012 |
| 2.5500         | *****  | 2.5300           | 1.0032 |

\*\*\*\*\* - no data

Flight 26 Test point 14

Sweep, deg = 34.5 Mach = 0.76 hp, ft = 34900. Angle of attack, deg = 3.7  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 199.8 Rrho = 1852000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.8749                                 | 0.2057                                  | 0.1004                              | 0.1 x/c                     |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.5110             |
| 0.0500         | *****              | 0.0700           | 0.5428             |
| 0.1100         | *****              | 0.1200           | 0.5975             |
| 0.1700         | *****              | 0.1800           | 0.6420             |
| 0.2200         | *****              | 0.2100           | 0.6682             |
| 0.2700         | *****              | 0.2700           | 0.7153             |
| 0.3200         | *****              | 0.3100           | 0.7600             |
| 0.3600         | *****              | 0.3700           | 0.7915             |
| 0.4100         | *****              | 0.4200           | 0.8284             |
| 0.5100         | *****              | 0.5300           | 0.8953             |
| 0.7200         | *****              | 0.7300           | 0.9905             |
| 0.9100         | *****              | 0.9400           | 1.0038             |
| 1.1100         | *****              | 1.1500           | 0.9974             |
| 1.3000         | *****              | 1.3500           | 0.9927             |
| 1.5300         | *****              | 1.5500           | 1.0003             |
| 1.7400         | *****              | 1.7500           | 1.0002             |
| 1.9400         | *****              | 1.9500           | 1.0032             |
| 2.1400         | *****              | 2.1600           | 0.9983             |
| 2.3500         | *****              | 2.3700           | 1.0006             |
| 2.5500         | *****              | 2.5800           | 1.0036             |

\*\*\*\*\* - no data

Flight 26 Test point 15

Sweep, deg = 34.5 Mach = 0.75 hp, ft = 34400. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 203.2 Rrho = 1879000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5612                                 | 0.1436                                  | 0.0695                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5622 |
| 0.0500         | *****  | 0.0700           | 0.5920 |
| 0.1100         | *****  | 0.1200           | 0.6581 |
| 0.1700         | *****  | 0.1800           | 0.7020 |
| 0.2200         | *****  | 0.2100           | 0.7465 |
| 0.2700         | *****  | 0.2700           | 0.8032 |
| 0.3200         | *****  | 0.3100           | 0.8537 |
| 0.3600         | *****  | 0.3700           | 0.8937 |
| 0.4100         | *****  | 0.4200           | 0.9288 |
| 0.5100         | *****  | 0.5300           | 0.9855 |
| 0.7200         | *****  | 0.7300           | 1.0041 |
| 0.9100         | *****  | 0.9400           | 1.0031 |
| 1.1100         | *****  | 1.1500           | 0.9978 |
| 1.3000         | *****  | 1.3500           | 0.9938 |
| 1.5300         | *****  | 1.5500           | 1.0033 |
| 1.7400         | *****  | 1.7500           | 1.0017 |
| 1.9400         | *****  | 1.9500           | 1.0059 |
| 2.1400         | *****  | 2.1600           | 0.9993 |
| 2.3500         | *****  | 2.3700           | 1.0021 |
| 2.5500         | *****  | 2.5800           | 1.0034 |

\*\*\*\*\* - no data

Flight 26 Test point 16

Sweep, deg = 34.5 Mach = 0.75 hp, ft = 34500. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 201.3 Rrho = 1869000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5591                                 | 0.1473                                  | 0.0710                              | 0.1 x/c                     |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.5492             |
| 0.0500         | *****              | 0.0700           | 0.5864             |
| 0.1100         | *****              | 0.1200           | 0.6535             |
| 0.1700         | *****              | 0.1800           | 0.7047             |
| 0.2200         | *****              | 0.2100           | 0.7335             |
| 0.2700         | *****              | 0.2700           | 0.7964             |
| 0.3200         | *****              | 0.3100           | 0.8460             |
| 0.3600         | *****              | 0.3700           | 0.8860             |
| 0.4100         | *****              | 0.4200           | 0.9224             |
| 0.5100         | *****              | 0.5300           | 0.9850             |
| 0.7200         | *****              | 0.7300           | 1.0044             |
| 0.9100         | *****              | 0.9400           | 1.0049             |
| 1.1100         | *****              | 1.1500           | 0.9982             |
| 1.3000         | *****              | 1.3500           | 0.9933             |
| 1.5300         | *****              | 1.5500           | 1.0030             |
| 1.7400         | *****              | 1.7500           | 1.0027             |
| 1.9400         | *****              | 1.9500           | 1.0058             |
| 2.1400         | *****              | 2.1600           | 0.9980             |
| 2.3500         | *****              | 2.3700           | 1.0007             |
| 2.5500         | *****              | 2.5800           | 1.0040             |

\*\*\*\*\* - no data



Flight 26 Test point 17

Sweep, deg = 30.4 Mach = 0.75 hp, ft = 34900. Angle of attack, deg = 3.3  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 195.3 Rrho = 1828000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7219                                 | 0.1828                                  | 0.0862                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4705 |
| 0.0500         | *****  | 0.0700           | 0.5197 |
| 0.1100         | *****  | 0.1200           | 0.6008 |
| 0.1700         | *****  | 0.1800           | 0.6533 |
| 0.2200         | *****  | 0.2100           | 0.6849 |
| 0.2700         | *****  | 0.2700           | 0.7452 |
| 0.3200         | *****  | 0.3100           | 0.7939 |
| 0.3600         | *****  | 0.3700           | 0.8306 |
| 0.4100         | *****  | 0.4200           | 0.8740 |
| 0.5100         | *****  | 0.5300           | 0.9519 |
| 0.7200         | *****  | 0.7300           | 1.0018 |
| 0.9100         | *****  | 0.9400           | 1.0037 |
| 1.1100         | *****  | 1.1500           | 0.9968 |
| 1.3000         | *****  | 1.3500           | 0.9925 |
| 1.5300         | *****  | 1.5500           | 1.0015 |
| 1.7400         | *****  | 1.7500           | 0.9997 |
| 1.9400         | *****  | 1.9500           | 1.0029 |
| 2.1400         | *****  | 2.1600           | 0.9978 |
| 2.3500         | *****  | 2.3700           | 1.0010 |
| 2.5500         | *****  | 2.5800           | 1.0022 |

\*\*\*\*\* - no data

Flight 26 Test point 18

Sweep, deg = 30.4 Mach = 0.76 hp, ft = 34900. Angle of attack, deg = 3.6  
 Angle of sideslip, deg = -0.7 QBAR, lb/ft<sup>2</sup> = 202.3 Rrho = 1857000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7265                        | 0.2024                         | 0.0946                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4457 |
| 0.0500         | *****  | 0.0700           | 0.5135 |
| 0.1100         | *****  | 0.1200           | 0.5817 |
| 0.1700         | *****  | 0.1800           | 0.6325 |
| 0.2200         | *****  | 0.2100           | 0.6528 |
| 0.2700         | *****  | 0.2700           | 0.7149 |
| 0.3200         | *****  | 0.3100           | 0.7572 |
| 0.3600         | *****  | 0.3700           | 0.7971 |
| 0.4100         | *****  | 0.4200           | 0.8375 |
| 0.5100         | *****  | 0.5300           | 0.9257 |
| 0.7200         | *****  | 0.7300           | 1.0012 |
| 0.9100         | *****  | 0.9400           | 1.0040 |
| 1.1100         | *****  | 1.1500           | 0.9989 |
| 1.3000         | *****  | 1.3500           | 0.9930 |
| 1.5300         | *****  | 1.5500           | 1.0041 |
| 1.7400         | *****  | 1.7500           | 0.9989 |
| 1.9400         | *****  | 1.9500           | 1.0046 |
| 2.1400         | *****  | 2.1600           | 0.9984 |
| 2.3500         | *****  | 2.3700           | 0.9963 |
| 2.5500         | *****  | 2.5800           | 1.0007 |

\*\*\*\*\* - no data

Flight 26 Test point 19

Sweep, deg = 30.4 Mach = 0.76 hp, ft = 35800. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 191.8 Rrho = 1782000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5582                                 | 0.1541                                  | 0.0724                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5062 |
| 0.0500         | *****  | 0.0700           | 0.5535 |
| 0.1100         | *****  | 0.1200           | 0.6311 |
| 0.1700         | *****  | 0.1800           | 0.6905 |
| 0.2200         | *****  | 0.2100           | 0.7306 |
| 0.2700         | *****  | 0.2700           | 0.7888 |
| 0.3200         | *****  | 0.3100           | 0.8404 |
| 0.3600         | *****  | 0.3700           | 0.8805 |
| 0.4100         | *****  | 0.4200           | 0.9187 |
| 0.5100         | *****  | 0.5300           | 0.9855 |
| 0.7200         | *****  | 0.7300           | 1.0035 |
| 0.9100         | *****  | 0.9400           | 1.0058 |
| 1.1100         | *****  | 1.1500           | 0.9958 |
| 1.3000         | *****  | 1.3500           | 0.9946 |
| 1.5300         | *****  | 1.5500           | 1.0039 |
| 1.7400         | *****  | 1.7500           | 1.0030 |
| 1.9400         | *****  | 1.9500           | 1.0024 |
| 2.1400         | *****  | 2.1600           | 1.0019 |
| 2.3500         | *****  | 2.3700           | 1.0015 |
| 2.5500         | *****  | 2.5800           | 1.0020 |

\*\*\*\*\* - no data

Flight 26 Test point 20

Sweep, deg = 30.4 Mach = 0.76 hp, ft = 34900. Angle of attack, deg = 3.8  
 Angle of sideslip, deg = 0.7 QBAR, lb/ft<sup>2</sup> = 204.0 Rnpu = 1868000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7361                        | 0.2063                         | 0.0985                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4867 |
| 0.0500         | *****  | 0.0700           | 0.5357 |
| 0.1100         | *****  | 0.1200           | 0.5958 |
| 0.1700         | *****  | 0.1800           | 0.6403 |
| 0.2200         | *****  | 0.2100           | 0.6617 |
| 0.2700         | *****  | 0.2700           | 0.7063 |
| 0.3200         | *****  | 0.3100           | 0.7486 |
| 0.3600         | *****  | 0.3700           | 0.7855 |
| 0.4100         | *****  | 0.4200           | 0.8288 |
| 0.5100         | *****  | 0.5300           | 0.9037 |
| 0.7200         | *****  | 0.7300           | 0.9974 |
| 0.9100         | *****  | 0.9400           | 1.0072 |
| 1.1100         | *****  | 1.1500           | 0.9984 |
| 1.3000         | *****  | 1.3500           | 0.9941 |
| 1.5300         | *****  | 1.5500           | 1.0036 |
| 1.7400         | *****  | 1.7500           | 0.9982 |
| 1.9400         | *****  | 1.9500           | 1.0030 |
| 2.1400         | *****  | 2.1600           | 0.9979 |
| 2.3500         | *****  | 2.3700           | 0.9985 |
| 2.5500         | *****  | 2.5800           | 0.9989 |

\*\*\*\*\* - no data

Flight 26 Test point 21

Sweep, deg = 30.4 Mach = 0.74 hp, ft = 36100. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 183.2 Rnpu = 1732000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5674                                 | 0.1553                                  | 0.0735                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5084 |
| 0.0500         | *****  | 0.0700           | 0.5628 |
| 0.1100         | *****  | 0.1200           | 0.6342 |
| 0.1700         | *****  | 0.1800           | 0.6962 |
| 0.2200         | *****  | 0.2100           | 0.7257 |
| 0.2700         | *****  | 0.2700           | 0.7821 |
| 0.3200         | *****  | 0.3100           | 0.8317 |
| 0.3600         | *****  | 0.3700           | 0.8757 |
| 0.4100         | *****  | 0.4200           | 0.9163 |
| 0.5100         | *****  | 0.5300           | 0.9804 |
| 0.7200         | *****  | 0.7300           | 1.0063 |
| 0.9100         | *****  | 0.9400           | 1.0067 |
| 1.1100         | *****  | 1.1500           | 0.9970 |
| 1.3000         | *****  | 1.3500           | 0.9934 |
| 1.5300         | *****  | 1.5500           | 1.0045 |
| 1.7400         | *****  | 1.7500           | 1.0018 |
| 1.9400         | *****  | 1.9500           | 1.0070 |
| 2.1400         | *****  | 2.1600           | 1.0003 |
| 2.3500         | *****  | 2.3700           | 1.0002 |
| 2.5500         | *****  | 2.5800           | 1.0024 |

\*\*\*\*\* - no data

Flight 26 Test point 22

Sweep, deg = 30.4 Mach = 0.74 hp, ft = 35600. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 185.1 Rho = 1754000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5639                                 | 0.1538                                  | 0.0731                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5061 |
| 0.0500         | *****  | 0.0700           | 0.5601 |
| 0.1100         | *****  | 0.1200           | 0.6434 |
| 0.1700         | *****  | 0.1800           | 0.6916 |
| 0.2200         | *****  | 0.2100           | 0.7319 |
| 0.2700         | *****  | 0.2700           | 0.7834 |
| 0.3200         | *****  | 0.3100           | 0.8403 |
| 0.3600         | *****  | 0.3700           | 0.8761 |
| 0.4100         | *****  | 0.4200           | 0.9147 |
| 0.5100         | *****  | 0.5300           | 0.9837 |
| 0.7200         | *****  | 0.7300           | 1.0057 |
| 0.9100         | *****  | 0.9400           | 1.0052 |
| 1.1100         | *****  | 1.1500           | 0.9962 |
| 1.3000         | *****  | 1.3500           | 0.9920 |
| 1.5300         | *****  | 1.5500           | 1.0020 |
| 1.7400         | *****  | 1.7500           | 1.0026 |
| 1.9400         | *****  | 1.9500           | 1.0049 |
| 2.1400         | *****  | 2.1600           | 1.0011 |
| 2.3500         | *****  | 2.3700           | 1.0022 |
| 2.5500         | *****  | 2.5800           | 1.0043 |

\*\*\*\*\* - no data

Flight 26 Test point 23

Sweep, deg = 30.4 Mach = 0.77 hp, ft = 34700. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 206.4 Rnpu = 1891000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5597                                 | 0.1577                                  | 0.0732                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4859 |
| 0.0500         | *****  | 0.0700           | 0.5491 |
| 0.1100         | *****  | 0.1200           | 0.6253 |
| 0.1700         | *****  | 0.1800           | 0.6816 |
| 0.2200         | *****  | 0.2100           | 0.7168 |
| 0.2700         | *****  | 0.2700           | 0.7813 |
| 0.3200         | *****  | 0.3100           | 0.8348 |
| 0.3600         | *****  | 0.3700           | 0.8772 |
| 0.4100         | *****  | 0.4200           | 0.9184 |
| 0.5100         | *****  | 0.5300           | 0.9840 |
| 0.7200         | *****  | 0.7300           | 1.0043 |
| 0.9100         | *****  | 0.9400           | 1.0056 |
| 1.1100         | *****  | 1.1500           | 0.9972 |
| 1.3000         | *****  | 1.3500           | 0.9953 |
| 1.5300         | *****  | 1.5500           | 1.0038 |
| 1.7400         | *****  | 1.7500           | 1.0023 |
| 1.9400         | *****  | 1.9500           | 1.0048 |
| 2.1400         | *****  | 2.1600           | 1.0006 |
| 2.3500         | *****  | 2.3700           | 0.9991 |
| 2.5500         | *****  | 2.5800           | 1.0029 |

\*\*\*\*\* - no data

Flight 26 Test point 24

Sweep, deg = 25.2 Mach = 0.75 hp, ft = 34900. Angle of attack, deg = 2.7  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 197.4 Rrho = 1838000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7200                        | 0.2322                         | 0.0898                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.0949 |
| 0.0500         | *****  | 0.0700           | 0.3249 |
| 0.1100         | *****  | 0.1200           | 0.4922 |
| 0.1700         | *****  | 0.1800           | 0.5755 |
| 0.2200         | *****  | 0.2100           | 0.6158 |
| 0.2700         | *****  | 0.2700           | 0.6845 |
| 0.3200         | *****  | 0.3100           | 0.7374 |
| 0.3600         | *****  | 0.3700           | 0.7827 |
| 0.4100         | *****  | 0.4200           | 0.8339 |
| 0.5100         | *****  | 0.5300           | 0.9305 |
| 0.7200         | *****  | 0.7300           | 1.0032 |
| 0.9100         | *****  | 0.9400           | 1.0053 |
| 1.1100         | *****  | 1.1500           | 0.9967 |
| 1.3000         | *****  | 1.3500           | 0.9918 |
| 1.5300         | *****  | 1.5500           | 1.0027 |
| 1.7400         | *****  | 1.7500           | 1.0002 |
| 1.9400         | *****  | 1.9500           | 1.0033 |
| 2.1400         | *****  | 2.1600           | 0.9982 |
| 2.3500         | *****  | 2.3700           | 0.9971 |
| 2.5500         | *****  | 2.5800           | 1.0016 |

\*\*\*\*\* - no data



Flight 26 Test point 25

Sweep, deg = 25.2 Mach = 0.75 hp, ft = 35400. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 191.9 Rrho = 1796000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none<br>0.1 x/c |
|-----------------------|--|---|-------------------------------------|--|
| Middle station rake   |  |   |                                     |  |
| Outboard station rake | 0.5706                                 | 0.1833                                  | 0.0759                              |  |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.2406 |
| 0.0500         | *****  | 0.0700           | 0.4296 |
| 0.1100         | *****  | 0.1200           | 0.5649 |
| 0.1700         | *****  | 0.1800           | 0.6460 |
| 0.2200         | *****  | 0.2100           | 0.6870 |
| 0.2700         | *****  | 0.2700           | 0.7563 |
| 0.3200         | *****  | 0.3100           | 0.8091 |
| 0.3600         | *****  | 0.3700           | 0.8554 |
| 0.4100         | *****  | 0.4200           | 0.9025 |
| 0.5100         | *****  | 0.5300           | 0.9756 |
| 0.7200         | *****  | 0.7300           | 1.0034 |
| 0.9100         | *****  | 0.9400           | 1.0038 |
| 1.1100         | *****  | 1.1500           | 0.9943 |
| 1.3000         | *****  | 1.3500           | 0.9918 |
| 1.5300         | *****  | 1.5500           | 1.0035 |
| 1.7400         | *****  | 1.7500           | 1.0008 |
| 1.9400         | *****  | 1.9500           | 1.0030 |
| 2.1400         | *****  | 2.1600           | 0.9978 |
| 2.3500         | *****  | 2.3700           | 0.9990 |
| 2.5500         | *****  | 2.5800           | 1.0026 |

\*\*\*\*\* - no data

Flight 26 Test point 26

Sweep, deg = 25.2 Mach = 0.79 hp, ft = 34700. Angle of attack, deg = 2.2  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 220.6 Rnpu = 1958000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7239                                 | 0.3299                                  | 0.0931                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.1678 |
| 0.0500         | *****  | 0.0700           | 0.1516 |
| 0.1100         | *****  | 0.1200           | 0.2027 |
| 0.1700         | *****  | 0.1800           | 0.2857 |
| 0.2200         | *****  | 0.2100           | 0.3330 |
| 0.2700         | *****  | 0.2700           | 0.4563 |
| 0.3200         | *****  | 0.3100           | 0.5616 |
| 0.3600         | *****  | 0.3700           | 0.6451 |
| 0.4100         | *****  | 0.4200           | 0.7333 |
| 0.5100         | *****  | 0.5300           | 0.8805 |
| 0.7200         | *****  | 0.7300           | 1.0034 |
| 0.9100         | *****  | 0.9400           | 1.0053 |
| 1.1100         | *****  | 1.1500           | 0.9971 |
| 1.3000         | *****  | 1.3500           | 0.9973 |
| 1.5300         | *****  | 1.5500           | 1.0034 |
| 1.7400         | *****  | 1.7500           | 1.0021 |
| 1.9400         | *****  | 1.9500           | 1.0028 |
| 2.1400         | *****  | 2.1600           | 0.9993 |
| 2.3500         | *****  | 2.3700           | 0.9982 |
| 2.5500         | *****  | 2.5800           | 0.9944 |

\*\*\*\*\* - no data

Flight 26 Test point 27

Sweep, deg = 25.2 Mach = 0.76 hp, ft = 36100. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 190.3 Rrho = 1764000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7218                                 | 0.2069                                  | 0.0820                              | 0.1 x/c                     |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.1505             |
| 0.0500         | *****              | 0.0700           | 0.3631             |
| 0.1100         | *****              | 0.1200           | 0.5334             |
| 0.1700         | *****              | 0.1800           | 0.6115             |
| 0.2200         | *****              | 0.2100           | 0.6559             |
| 0.2700         | *****              | 0.2700           | 0.7229             |
| 0.3200         | *****              | 0.3100           | 0.7807             |
| 0.3600         | *****              | 0.3700           | 0.8259             |
| 0.4100         | *****              | 0.4200           | 0.8747             |
| 0.5100         | *****              | 0.5300           | 0.9611             |
| 0.7200         | *****              | 0.7300           | 1.0015             |
| 0.9100         | *****              | 0.9400           | 1.0032             |
| 1.1100         | *****              | 1.1500           | 0.9934             |
| 1.3000         | *****              | 1.3500           | 0.9928             |
| 1.5300         | *****              | 1.5500           | 1.0021             |
| 1.7400         | *****              | 1.7500           | 0.9989             |
| 1.9400         | *****              | 1.9500           | 1.0033             |
| 2.1400         | *****              | 2.1600           | 1.0013             |
| 2.3500         | *****              | 2.3700           | 0.9985             |
| 2.5500         | *****              | 2.5800           | 1.0050             |

\*\*\*\*\* - no data

Flight 26 Test point 28

Sweep, deg = 25.1 Mach = 0.77 hp, ft = 37200. Angle of attack, deg = 3.3  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 184.2 Rrho = 1704000.

|                       |                               |                                |                            |                     |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.9092                        | 0.4122                         | 0.1114                     | 0.1 x/c             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.2185             |
| 0.0500         | *****              | 0.0700           | 0.2146             |
| 0.1100         | *****              | 0.1200           | 0.1000             |
| 0.1700         | *****              | 0.1800           | 0.2016             |
| 0.2200         | *****              | 0.2100           | 0.2123             |
| 0.2700         | *****              | 0.2700           | 0.3338             |
| 0.3200         | *****              | 0.3100           | 0.4034             |
| 0.3600         | *****              | 0.3700           | 0.4632             |
| 0.4100         | *****              | 0.4200           | 0.5423             |
| 0.5100         | *****              | 0.5300           | 0.7112             |
| 0.7200         | *****              | 0.7300           | 0.9679             |
| 0.9100         | *****              | 0.9400           | 1.0050             |
| 1.1100         | *****              | 1.1500           | 0.9976             |
| 1.3000         | *****              | 1.3500           | 0.9944             |
| 1.5300         | *****              | 1.5500           | 1.0024             |
| 1.7400         | *****              | 1.7500           | 1.0017             |
| 1.9400         | *****              | 1.9500           | 1.0035             |
| 2.1400         | *****              | 2.1600           | 1*****             |
| 2.3500         | *****              | 2.3700           | 1.0001             |
| 2.5500         | *****              | 2.5800           | 0.9953             |

\*\*\*\*\* - no data

Flight 26 Test point 29

Sweep, deg = 25.1 Mach = 0.75 hp, ft = 36200. Angle of attack, deg = 3.1  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 184.3 Rrho = 1731000.

|                       |                               |                                |                            |                     |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7190                        | 0.2386                         | 0.0926                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.0825 |
| 0.0500         | *****  | 0.0700           | 0.3242 |
| 0.1100         | *****  | 0.1200           | 0.4873 |
| 0.1700         | *****  | 0.1800           | 0.5797 |
| 0.2200         | *****  | 0.2100           | 0.6082 |
| 0.2700         | *****  | 0.2700           | 0.6766 |
| 0.3200         | *****  | 0.3100           | 0.7267 |
| 0.3600         | *****  | 0.3700           | 0.7773 |
| 0.4100         | *****  | 0.4200           | 0.8199 |
| 0.5100         | *****  | 0.5300           | 0.9139 |
| 0.7200         | *****  | 0.7300           | 1.0045 |
| 0.9100         | *****  | 0.9400           | 1.0040 |
| 1.1100         | *****  | 1.1500           | 0.9976 |
| 1.3000         | *****  | 1.3500           | 0.9925 |
| 1.5300         | *****  | 1.5500           | 1.0023 |
| 1.7400         | *****  | 1.7500           | 1.0012 |
| 1.9400         | *****  | 1.9500           | 1.0027 |
| 2.1400         | *****  | 2.1600           | 0.9983 |
| 2.3500         | *****  | 2.3700           | 0.9962 |
| 2.5500         | *****  | 2.5800           | 1.0006 |

\*\*\*\*\* - no data

Flight 27 Test point 1

Sweep, deg = 30.4 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 352.6 Rrho = 2933000.

|                       |                               |                                |                            |                     |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7214                        | 0.2491                         | 0.0962                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.2769 |
| 0.0500         | *****  | 0.0700           | 0.3336 |
| 0.1100         | *****  | 0.1200           | 0.4164 |
| 0.1700         | *****  | 0.1800           | 0.4834 |
| 0.2200         | *****  | 0.2100           | 0.5329 |
| 0.2700         | *****  | 0.2700           | 0.6062 |
| 0.3200         | *****  | 0.3100           | 0.6791 |
| 0.3600         | *****  | 0.3700           | 0.7482 |
| 0.4100         | *****  | 0.4200           | 0.8169 |
| 0.5100         | *****  | 0.5300           | 0.9338 |
| 0.7200         | *****  | 0.7300           | 1.0026 |
| 0.9100         | *****  | 0.9400           | 1.0029 |
| 1.1100         | *****  | 1.1500           | 1***** |
| 1.3000         | *****  | 1.3500           | 0.9987 |
| 1.5300         | *****  | 1.5500           | 1.0028 |
| 1.7400         | *****  | 1.7500           | 1.0018 |
| 1.9400         | *****  | 1.9500           | 1.0002 |
| 2.1400         | *****  | 2.1600           | 0.9960 |
| 2.3500         | *****  | 2.3700           | 0.9964 |
| 2.5500         | *****  | 2.5800           | 0.9986 |

\*\*\*\*\* - no data

Flight 27 Test point 2

Sweep, deg = 30.4 Mach = 0.80 hp, ft = 24700. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 357.5 Rrho = 2966000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7263                        | 0.2985                         | 0.0979                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.1915 |
| 0.0500         | *****  | 0.0700           | 0.2242 |
| 0.1100         | *****  | 0.1200           | 0.3005 |
| 0.1700         | *****  | 0.1800           | 0.3786 |
| 0.2200         | *****  | 0.2100           | 0.4291 |
| 0.2700         | *****  | 0.2700           | 0.5210 |
| 0.3200         | *****  | 0.3100           | 0.6021 |
| 0.3600         | *****  | 0.3700           | 0.6834 |
| 0.4100         | *****  | 0.4200           | 0.7607 |
| 0.5100         | *****  | 0.5300           | 0.8969 |
| 0.7200         | *****  | 0.7300           | 1.0018 |
| 0.9100         | *****  | 0.9400           | 1.0028 |
| 1.1100         | *****  | 1.1500           | 1.0004 |
| 1.3000         | *****  | 1.3500           | 0.9979 |
| 1.5300         | *****  | 1.5500           | 1.0014 |
| 1.7400         | *****  | 1.7500           | 1.0012 |
| 1.9400         | *****  | 1.9500           | 1.0024 |
| 2.1400         | *****  | 2.1600           | 0.9996 |
| 2.3500         | *****  | 2.3700           | 0.9982 |
| 2.5500         | *****  | 2.5800           | 0.9961 |

\*\*\*\*\* - no data

Flight 27 Test point 3

Sweep, deg = 25.1 Mach = 0.80 hp, ft = 25100. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 352.2 Rrho = 2934000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7257                        | 0.2474                         | 0.0828                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4290 |
| 0.0500         | *****  | 0.0700           | 0.3349 |
| 0.1100         | *****  | 0.1200           | 0.2382 |
| 0.1700         | *****  | 0.1800           | 0.4343 |
| 0.2200         | *****  | 0.2100           | 0.5340 |
| 0.2700         | *****  | 0.2700           | 0.6411 |
| 0.3200         | *****  | 0.3100           | 0.7254 |
| 0.3600         | *****  | 0.3700           | 0.8014 |
| 0.4100         | *****  | 0.4200           | 0.8644 |
| 0.5100         | *****  | 0.5300           | 0.9602 |
| 0.7200         | *****  | 0.7300           | 1.0008 |
| 0.9100         | *****  | 0.9400           | 1.0027 |
| 1.1100         | *****  | 1.1500           | 0.9997 |
| 1.3000         | *****  | 1.3500           | 0.9991 |
| 1.5300         | *****  | 1.5500           | 1.0021 |
| 1.7400         | *****  | 1.7500           | 1.0020 |
| 1.9400         | *****  | 1.9500           | 1.0025 |
| 2.1400         | *****  | 2.1600           | 0.9993 |
| 2.3500         | *****  | 2.3700           | 0.9959 |
| 2.5500         | *****  | 2.5800           | 0.9960 |

\*\*\*\*\* - no data



Flight 27 Test point 4

Sweep, deg = 25.0 Mach = 0.80 hp, ft = 24900. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 355.5 Rrho = 2951000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7126                                 | 0.2575                                  | 0.0825                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3701 |
| 0.0500         | *****  | 0.0700           | 0.2996 |
| 0.1100         | *****  | 0.1200           | 0.2273 |
| 0.1700         | *****  | 0.1800           | 0.4135 |
| 0.2200         | *****  | 0.2100           | 0.5101 |
| 0.2700         | *****  | 0.2700           | 0.6239 |
| 0.3200         | *****  | 0.3100           | 0.7090 |
| 0.3600         | *****  | 0.3700           | 0.7892 |
| 0.4100         | *****  | 0.4200           | 0.8540 |
| 0.5100         | *****  | 0.5300           | 0.9575 |
| 0.7200         | *****  | 0.7300           | 1.0036 |
| 0.9100         | *****  | 0.9400           | 1.0032 |
| 1.1100         | *****  | 1.1500           | 1.0012 |
| 1.3000         | *****  | 1.3500           | 0.9998 |
| 1.5300         | *****  | 1.5500           | 1.0025 |
| 1.7400         | *****  | 1.7500           | 1.0018 |
| 1.9400         | *****  | 1.9500           | 1.0035 |
| 2.1400         | *****  | 2.1600           | 0.9971 |
| 2.3500         | *****  | 2.3700           | 0.9953 |
| 2.5500         | *****  | 2.5800           | 0.9920 |

\*\*\*\*\* - no data

Flight 27 Test point 5

Sweep, deg = 25.0 Mach = 0.81 hp, ft = 25100. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 354.8 Rho = 2944000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7210                                 | 0.3198                                  | 0.0848                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.0887 |
| 0.0500         | *****  | 0.0700           | 0.0301 |
| 0.1100         | *****  | 0.1200           | 0.2200 |
| 0.1700         | *****  | 0.1800           | 0.3113 |
| 0.2200         | *****  | 0.2100           | 0.3838 |
| 0.2700         | *****  | 0.2700           | 0.4914 |
| 0.3200         | *****  | 0.3100           | 0.5839 |
| 0.3600         | *****  | 0.3700           | 0.6790 |
| 0.4100         | *****  | 0.4200           | 0.7631 |
| 0.5100         | *****  | 0.5300           | 0.9089 |
| 0.7200         | *****  | 0.7300           | 1.0038 |
| 0.9100         | *****  | 0.9400           | 1.0048 |
| 1.1100         | *****  | 1.1500           | 1.0016 |
| 1.3000         | *****  | 1.3500           | 1.0005 |
| 1.5300         | *****  | 1.5500           | 1.0036 |
| 1.7400         | *****  | 1.7500           | 1.0030 |
| 1.9400         | *****  | 1.9500           | 1.0032 |
| 2.1400         | *****  | 2.1600           | 0.9994 |
| 2.3500         | *****  | 2.3700           | 0.9919 |
| 2.5500         | *****  | 2.5800           | 0.9882 |

\*\*\*\*\* - no data

Flight 27 Test point 6

Sweep, deg = 20.1 Mach = 0.80 hp, ft = 24900. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 352.5 Rnpu = 2939000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7212                                 | 0.2918                                  | 0.0907                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4346 |
| 0.0500         | *****  | 0.0700           | 0.4160 |
| 0.1100         | *****  | 0.1200           | 0.2491 |
| 0.1700         | *****  | 0.1800           | 0.1900 |
| 0.2200         | *****  | 0.2100           | 0.3619 |
| 0.2700         | *****  | 0.2700           | 0.5095 |
| 0.3200         | *****  | 0.3100           | 0.6132 |
| 0.3600         | *****  | 0.3700           | 0.7087 |
| 0.4100         | *****  | 0.4200           | 0.7938 |
| 0.5100         | *****  | 0.5300           | 0.9266 |
| 0.7200         | *****  | 0.7300           | 1.0030 |
| 0.9100         | *****  | 0.9400           | 1.0033 |
| 1.1100         | *****  | 1.1500           | 1.0002 |
| 1.3000         | *****  | 1.3500           | 0.9996 |
| 1.5300         | *****  | 1.5500           | 1.0023 |
| 1.7400         | *****  | 1.7500           | 1.0020 |
| 1.9400         | *****  | 1.9500           | 1.0023 |
| 2.1400         | *****  | 2.1600           | 1.0004 |
| 2.3500         | *****  | 2.3700           | 0.9945 |
| 2.5500         | *****  | 2.5800           | 0.9925 |

\*\*\*\*\* - no data

Flight 27 Test point 7

Sweep, deg = 20.1 Mach = 0.80 hp, ft = 25300. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 342.3 Rrho = 2877000.

|                       |                               |                                |                            |                             |
|-----------------------|-------------------------------|--------------------------------|----------------------------|-----------------------------|
|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip<br>none |
| Middle station rake   | *****                         | *****                          | *****                      |                             |
| Outboard station rake | 0.7232                        | 0.2953                         | 0.0912                     | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4503 |
| 0.0500         | *****  | 0.0700           | 0.4364 |
| 0.1100         | *****  | 0.1200           | 0.7700 |
| 0.1700         | *****  | 0.1800           | 0.1509 |
| 0.2200         | *****  | 0.2100           | 0.3337 |
| 0.2700         | *****  | 0.2700           | 0.4941 |
| 0.3200         | *****  | 0.3100           | 0.6039 |
| 0.3600         | *****  | 0.3700           | 0.7033 |
| 0.4100         | *****  | 0.4200           | 0.7861 |
| 0.5100         | *****  | 0.5300           | 0.9214 |
| 0.7200         | *****  | 0.7300           | 1.0025 |
| 0.9100         | *****  | 0.9400           | 1.0030 |
| 1.1100         | *****  | 1.1500           | 1.0004 |
| 1.3000         | *****  | 1.3500           | 0.9985 |
| 1.5300         | *****  | 1.5500           | 1.0018 |
| 1.7400         | *****  | 1.7500           | 1.0021 |
| 1.9400         | *****  | 1.9500           | 1.0018 |
| 2.1400         | *****  | 2.1600           | 1.0012 |
| 2.3500         | *****  | 2.3700           | 0.9950 |
| 2.5500         | *****  | 2.5800           | 0.9938 |

\*\*\*\*\* - no data

Flight 27 Test point 8

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 24900. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -4.8 QBAR, lb/ft<sup>2</sup> = 354.0 Rnpu = 2940000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7271                                 | 0.2785                                  | 0.0955                              | 0.1 x/c                     |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.6400             |
| 0.0500         | *****              | 0.0700           | 0.6304             |
| 0.1100         | *****              | 0.1200           | 0.4872             |
| 0.1700         | *****              | 0.1800           | 0.3290             |
| 0.2200         | *****              | 0.2100           | 0.1618             |
| 0.2700         | *****              | 0.2700           | 0.4406             |
| 0.3200         | *****              | 0.3100           | 0.5737             |
| 0.3600         | *****              | 0.3700           | 0.6843             |
| 0.4100         | *****              | 0.4200           | 0.7714             |
| 0.5100         | *****              | 0.5300           | 0.9158             |
| 0.7200         | *****              | 0.7300           | 1.0011             |
| 0.9100         | *****              | 0.9400           | 1.0021             |
| 1.1100         | *****              | 1.1500           | 0.9996             |
| 1.3000         | *****              | 1.3500           | 0.9978             |
| 1.5300         | *****              | 1.5500           | 1.0018             |
| 1.7400         | *****              | 1.7500           | 1.0010             |
| 1.9400         | *****              | 1.9500           | 1.0022             |
| 2.1400         | *****              | 2.1600           | 0.9997             |
| 2.3500         | *****              | 2.3700           | 0.9976             |
| 2.5500         | *****              | 2.5800           | 0.9971             |

\*\*\*\*\* - no data

Flight 27 Test point 9

Sweep, deg = 20.1 Mach = 0.81 hp, ft = 25500. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = -0.6 QBAR, lb/ft<sup>2</sup> = 351.2 Rrho = 2907000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 1.2081                                 | 0.5030                                  | 0.1146                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.1384 |
| 0.0500         | *****  | 0.0700           | 0.1661 |
| 0.1100         | *****  | 0.1200           | 0.1647 |
| 0.1700         | *****  | 0.1800           | 0.1965 |
| 0.2200         | *****  | 0.2100           | 0.2220 |
| 0.2700         | *****  | 0.2700           | 0.1547 |
| 0.3200         | *****  | 0.3100           | 0.1325 |
| 0.3600         | *****  | 0.3700           | 0.2454 |
| 0.4100         | *****  | 0.4200           | 0.3602 |
| 0.5100         | *****  | 0.5300           | 0.5723 |
| 0.7200         | *****  | 0.7300           | 0.8957 |
| 0.9100         | *****  | 0.9400           | 0.9929 |
| 1.1100         | *****  | 1.1500           | 0.9986 |
| 1.3000         | *****  | 1.3500           | 0.9984 |
| 1.5300         | *****  | 1.5500           | 1.0019 |
| 1.7400         | *****  | 1.7500           | 1.0017 |
| 1.9400         | *****  | 1.9500           | 1.0018 |
| 2.1400         | *****  | 2.1600           | 0.9990 |
| 2.3500         | *****  | 2.3700           | 0.9992 |
| 2.5500         | *****  | 2.5800           | 0.9994 |

\*\*\*\*\* - no data

Flight 27 Test point 10

Sweep, deg = 20.0 Mach = 0.81 hp, ft = 24100. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 375.4 Rrho = 3066000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.8909                                 | 0.4038                                  | 0.0929                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.0931 |
| 0.0500         | *****  | 0.0700           | 0.0325 |
| 0.1100         | *****  | 0.1200           | 0.1271 |
| 0.1700         | *****  | 0.1800           | 0.1478 |
| 0.2200         | *****  | 0.2100           | 0.1914 |
| 0.2700         | *****  | 0.2700           | 0.3066 |
| 0.3200         | *****  | 0.3100           | 0.3941 |
| 0.3600         | *****  | 0.3700           | 0.4923 |
| 0.4100         | *****  | 0.4200           | 0.5901 |
| 0.5100         | *****  | 0.5300           | 0.7841 |
| 0.7200         | *****  | 0.7300           | 0.9903 |
| 0.9100         | *****  | 0.9400           | 1.0026 |
| 1.1100         | *****  | 1.1500           | 0.9997 |
| 1.3000         | *****  | 1.3500           | 0.9989 |
| 1.5300         | *****  | 1.5500           | 1.0023 |
| 1.7400         | *****  | 1.7500           | 1.0014 |
| 1.9400         | *****  | 1.9500           | 1.0024 |
| 2.1400         | *****  | 2.1600           | 0.9997 |
| 2.3500         | *****  | 2.3700           | 0.9982 |
| 2.5500         | *****  | 2.5800           | 0.9947 |

\*\*\*\*\* - no data

Flight 27 Test point 11

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 336.3 Rho = 3019000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5602                        | 0.1356                         | 0.0674                     | 0.1 x/c             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.5760             |
| 0.0500         | *****              | 0.0700           | 0.6158             |
| 0.1100         | *****              | 0.1200           | 0.6766             |
| 0.1700         | *****              | 0.1800           | 0.7268             |
| 0.2200         | *****              | 0.2100           | 0.7655             |
| 0.2700         | *****              | 0.2700           | 0.8147             |
| 0.3200         | *****              | 0.3100           | 0.8589             |
| 0.3600         | *****              | 0.3700           | 0.8977             |
| 0.4100         | *****              | 0.4200           | 0.9352             |
| 0.5100         | *****              | 0.5300           | 0.9872             |
| 0.7200         | *****              | 0.7300           | 1.0024             |
| 0.9100         | *****              | 0.9400           | 1.0042             |
| 1.1100         | *****              | 1.1500           | 0.9994             |
| 1.3000         | *****              | 1.3500           | 0.9969             |
| 1.5300         | *****              | 1.5500           | 1.0024             |
| 1.7400         | *****              | 1.7500           | 1.0019             |
| 1.9400         | *****              | 1.9500           | 1.0021             |
| 2.1400         | *****              | 2.1600           | 0.9996             |
| 2.3500         | *****              | 2.3700           | 1.0016             |
| 2.5500         | *****              | 2.5800           | 1.0023             |

\*\*\*\*\* - no data



Flight 27 Test point 12

Sweep, deg = 30.0 Mach = 0.71 hp, ft = 19900. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 344.3 Rrho = 3062000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5631                                 | 0.1392                                  | 0.0688                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5617 |
| 0.0500         | *****  | 0.0700           | 0.8071 |
| 0.1100         | *****  | 0.1200           | 0.6712 |
| 0.1700         | *****  | 0.1800           | 0.7223 |
| 0.2200         | *****  | 0.2100           | 0.7602 |
| 0.2700         | *****  | 0.2700           | 0.8121 |
| 0.3200         | *****  | 0.3100           | 0.8552 |
| 0.3600         | *****  | 0.3700           | 0.8935 |
| 0.4100         | *****  | 0.4200           | 0.9276 |
| 0.5100         | *****  | 0.5300           | 0.9846 |
| 0.7200         | *****  | 0.7300           | 1.0021 |
| 0.9100         | *****  | 0.9400           | 1.0040 |
| 1.1100         | *****  | 1.1500           | 0.9994 |
| 1.3000         | *****  | 1.3500           | 0.9976 |
| 1.5300         | *****  | 1.5500           | 1.0012 |
| 1.7400         | *****  | 1.7500           | 1.0018 |
| 1.9400         | *****  | 1.9500           | 1.0035 |
| 2.1400         | *****  | 2.1600           | 1.0001 |
| 2.3500         | *****  | 2.3700           | 1.0020 |
| 2.5500         | *****  | 2.5800           | 1.0036 |

\*\*\*\*\* - no data

Flight 27 Test point 13

Sweep, deg = 30.0 Mach = 0.71 hp, ft = 19800. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 340.6 Rnpu = 3045000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5602                                 | 0.1354                                  | 0.0672                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5689 |
| 0.0500         | *****  | 0.0700           | 0.6158 |
| 0.1100         | *****  | 0.1200           | 0.6775 |
| 0.1700         | *****  | 0.1800           | 0.7290 |
| 0.2200         | *****  | 0.2100           | 0.7680 |
| 0.2700         | *****  | 0.2700           | 0.8184 |
| 0.3200         | *****  | 0.3100           | 0.8603 |
| 0.3600         | *****  | 0.3700           | 0.8999 |
| 0.4100         | *****  | 0.4200           | 0.9331 |
| 0.5100         | *****  | 0.5300           | 0.9868 |
| 0.7200         | *****  | 0.7300           | 1.0028 |
| 0.9100         | *****  | 0.9400           | 1.0037 |
| 1.1100         | *****  | 1.1500           | 0.9982 |
| 1.3000         | *****  | 1.3500           | 0.9963 |
| 1.5300         | *****  | 1.5500           | 1.0021 |
| 1.7400         | *****  | 1.7500           | 1.0019 |
| 1.9400         | *****  | 1.9500           | 1.0043 |
| 2.1400         | *****  | 2.1600           | 1.0006 |
| 2.3500         | *****  | 2.3700           | 1.0013 |
| 2.5500         | *****  | 2.5800           | 1.0020 |

\*\*\*\*\* - no data

Flight 27 Test point 14

Sweep, deg = 30.0 Mach = 0.71 hp, ft = 20000. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 345.4 Rnpu = 3061000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5610                                 | 0.1402                                  | 0.0689                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5580 |
| 0.0500         | *****  | 0.0700           | 0.6013 |
| 0.1100         | *****  | 0.1200           | 0.6666 |
| 0.1700         | *****  | 0.1800           | 0.7186 |
| 0.2200         | *****  | 0.2100           | 0.7585 |
| 0.2700         | *****  | 0.2700           | 0.8128 |
| 0.3200         | *****  | 0.3100           | 0.8524 |
| 0.3600         | *****  | 0.3700           | 0.8924 |
| 0.4100         | *****  | 0.4200           | 0.9293 |
| 0.5100         | *****  | 0.5300           | 0.9857 |
| 0.7200         | *****  | 0.7300           | 1.0024 |
| 0.9100         | *****  | 0.9400           | 1.0045 |
| 1.1100         | *****  | 1.1500           | 0.9990 |
| 1.3000         | *****  | 1.3500           | 0.9970 |
| 1.5300         | *****  | 1.5500           | 1.0021 |
| 1.7400         | *****  | 1.7500           | 1.0012 |
| 1.9400         | *****  | 1.9500           | 1.0031 |
| 2.1400         | *****  | 2.1600           | 1.0004 |
| 2.3500         | *****  | 2.3700           | 1.0020 |
| 2.5500         | *****  | 2.5800           | 1.0026 |

\*\*\*\*\* - no data

Flight 27 Test point 15

Sweep, deg = 25.4 Mach = 0.70 hp, ft = 20100. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 332.5 Rnpu = 2994000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5135                        | 0.1443                         | 0.0669                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4578 |
| 0.0500         | *****  | 0.0700           | 0.5491 |
| 0.1100         | *****  | 0.1200           | 0.6431 |
| 0.1700         | *****  | 0.1800           | 0.7099 |
| 0.2200         | *****  | 0.2100           | 0.7544 |
| 0.2700         | *****  | 0.2700           | 0.8112 |
| 0.3200         | *****  | 0.3100           | 0.8593 |
| 0.3600         | *****  | 0.3700           | 0.9026 |
| 0.4100         | *****  | 0.4200           | 0.9391 |
| 0.5100         | *****  | 0.5300           | 0.9917 |
| 0.7200         | *****  | 0.7300           | 1.0020 |
| 0.9100         | *****  | 0.9400           | 1.0030 |
| 1.1100         | *****  | 1.1500           | 0.9987 |
| 1.3000         | *****  | 1.3500           | 0.9975 |
| 1.5300         | *****  | 1.5500           | 1.0015 |
| 1.7400         | *****  | 1.7500           | 1.0005 |
| 1.9400         | *****  | 1.9500           | 1.0023 |
| 2.1400         | *****  | 2.1600           | 1.0004 |
| 2.3500         | *****  | 2.3700           | 1.0004 |
| 2.5500         | *****  | 2.5800           | 1.0020 |

\*\*\*\*\* - no data

Flight 27 Test point 16

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 20400. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 326.3 Rrho = 2954000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5585                                 | 0.1568                                  | 0.0717                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3988 |
| 0.0500         | *****  | 0.0700           | 0.5140 |
| 0.1100         | *****  | 0.1200           | 0.6193 |
| 0.1700         | *****  | 0.1800           | 0.6917 |
| 0.2200         | *****  | 0.2100           | 0.7354 |
| 0.2700         | *****  | 0.2700           | 0.7940 |
| 0.3200         | *****  | 0.3100           | 0.8393 |
| 0.3600         | *****  | 0.3700           | 0.8842 |
| 0.4100         | *****  | 0.4200           | 0.9245 |
| 0.5100         | *****  | 0.5300           | 0.9857 |
| 0.7200         | *****  | 0.7300           | 1.0022 |
| 0.9100         | *****  | 0.9400           | 1.0035 |
| 1.1100         | *****  | 1.1500           | 0.9995 |
| 1.3000         | *****  | 1.3500           | 0.9969 |
| 1.5300         | *****  | 1.5500           | 1.0019 |
| 1.7400         | *****  | 1.7500           | 1.0018 |
| 1.9400         | *****  | 1.9500           | 1.0041 |
| 2.1400         | *****  | 2.1600           | 1.0005 |
| 2.3500         | *****  | 2.3700           | 1.0009 |
| 2.5500         | *****  | 2.5800           | 1.0030 |

\*\*\*\*\* - no data

Flight 27 Test point 17

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 19900. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 329.6 Rrho = 2985000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5527                        | 0.1742                         | 0.0705                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3247 |
| 0.0500         | *****  | 0.0700           | 0.2861 |
| 0.1100         | *****  | 0.1200           | 0.5400 |
| 0.1700         | *****  | 0.1800           | 0.6619 |
| 0.2200         | *****  | 0.2100           | 0.7174 |
| 0.2700         | *****  | 0.2700           | 0.7833 |
| 0.3200         | *****  | 0.3100           | 0.8373 |
| 0.3600         | *****  | 0.3700           | 0.8848 |
| 0.4100         | *****  | 0.4200           | 0.9260 |
| 0.5100         | *****  | 0.5300           | 0.9883 |
| 0.7200         | *****  | 0.7300           | 1.0009 |
| 0.9100         | *****  | 0.9400           | 1.0027 |
| 1.1100         | *****  | 1.1500           | 0.9979 |
| 1.3000         | *****  | 1.3500           | 0.9964 |
| 1.5300         | *****  | 1.5500           | 1.0025 |
| 1.7400         | *****  | 1.7500           | 1.0023 |
| 1.9400         | *****  | 1.9500           | 1.0030 |
| 2.1400         | *****  | 2.1600           | 1***** |
| 2.3500         | *****  | 2.3700           | 1.0027 |
| 2.5500         | *****  | 2.5800           | 1.0032 |

\*\*\*\*\* - no data

Flight 27 Test point 18

Sweep, deg = 20.0 Mach = 0.71 hp, ft = 20000. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 339.1 Rho = 3025000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7377                                 | 0.2095                                  | 0.0733                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.7175 |
| 0.0500         | *****  | 0.0700           | 0.5600 |
| 0.1100         | *****  | 0.1200           | 0.0186 |
| 0.1700         | *****  | 0.1800           | 0.4738 |
| 0.2200         | *****  | 0.2100           | 0.5985 |
| 0.2700         | *****  | 0.2700           | 0.7049 |
| 0.3200         | *****  | 0.3100           | 0.7807 |
| 0.3600         | *****  | 0.3700           | 0.8423 |
| 0.4100         | *****  | 0.4200           | 0.8900 |
| 0.5100         | *****  | 0.5300           | 0.9705 |
| 0.7200         | *****  | 0.7300           | 0.9991 |
| 0.9100         | *****  | 0.9400           | 1.0021 |
| 1.1100         | *****  | 1.1500           | 0.9979 |
| 1.3000         | *****  | 1.3500           | 0.9956 |
| 1.5300         | *****  | 1.5500           | 1.0001 |
| 1.7400         | *****  | 1.7500           | 1.0007 |
| 1.9400         | *****  | 1.9500           | 1.0018 |
| 2.1400         | *****  | 2.1600           | 1.0004 |
| 2.3500         | *****  | 2.3700           | 1.0004 |
| 2.5500         | *****  | 2.5800           | 1.0019 |

\*\*\*\*\* - no data

Flight 27 Test point 19

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 20400. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 324.7 Rrho = 2942000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5529                        | 0.1707                         | 0.0692                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.2823 |
| 0.0500         | *****  | 0.0700           | 0.3236 |
| 0.1100         | *****  | 0.1200           | 0.5575 |
| 0.1700         | *****  | 0.1800           | 0.6695 |
| 0.2200         | *****  | 0.2100           | 0.7226 |
| 0.2700         | *****  | 0.2700           | 0.7912 |
| 0.3200         | *****  | 0.3100           | 0.8445 |
| 0.3600         | *****  | 0.3700           | 0.8902 |
| 0.4100         | *****  | 0.4200           | 0.9324 |
| 0.5100         | *****  | 0.5300           | 0.9893 |
| 0.7200         | *****  | 0.7300           | 1.0018 |
| 0.9100         | *****  | 0.9400           | 1.0037 |
| 1.1100         | *****  | 1.1500           | 0.9981 |
| 1.3000         | *****  | 1.3500           | 0.9977 |
| 1.5900         | *****  | 1.5500           | 1.0025 |
| 1.7400         | *****  | 1.7500           | 0.9998 |
| 1.9400         | *****  | 1.9500           | 1.0024 |
| 2.1400         | *****  | 2.1600           | 1.0009 |
| 2.3500         | *****  | 2.3700           | 1.0023 |
| 2.5500         | *****  | 2.5800           | 1.0015 |

\*\*\*\*\* - no data



Flight 27 Test point 20

Sweep, deg = 20.1 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 223.9 Rho = 1977000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.8362                        | 0.3838                         | 0.0959                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.2233 |
| 0.0500         | *****  | 0.0700           | 0.2346 |
| 0.1100         | *****  | 0.1200           | 0.1140 |
| 0.1700         | *****  | 0.1800           | 0.1359 |
| 0.2200         | *****  | 0.2100           | 0.1519 |
| 0.2700         | *****  | 0.2700           | 0.3086 |
| 0.3200         | *****  | 0.3100           | 0.4297 |
| 0.3500         | *****  | 0.3700           | 0.5240 |
| 0.4100         | *****  | 0.4200           | 0.6229 |
| 0.5100         | *****  | 0.5300           | 0.8071 |
| 0.7200         | *****  | 0.7300           | 0.9964 |
| 0.9100         | *****  | 0.9400           | 1.0031 |
| 1.1100         | *****  | 1.1500           | 0.9973 |
| 1.3000         | *****  | 1.3500           | 0.9944 |
| 1.5300         | *****  | 1.5500           | 1.0018 |
| 1.7400         | *****  | 1.7500           | 1.0016 |
| 1.9400         | *****  | 1.9500           | 1.0048 |
| 2.1400         | *****  | 2.1600           | 0.9990 |
| 2.3500         | *****  | 2.3700           | 0.9986 |
| 2.5500         | *****  | 2.5800           | 0.9993 |

\*\*\*\*\* - no data

Flight 27 Test point 21

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 225.0 Rrho = 1981000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7299                                 | 0.3508                                  | 0.1061                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4551 |
| 0.0500         | *****  | 0.0700           | 0.4518 |
| 0.1100         | *****  | 0.1200           | 0.3242 |
| 0.1700         | *****  | 0.1800           | 0.2791 |
| 0.2200         | *****  | 0.2100           | 0.1980 |
| 0.270          | *****  | 0.2700           | 0.2667 |
| 0.3200         | *****  | 0.3100           | 0.4222 |
| 0.3600         | *****  | 0.3700           | 0.5347 |
| 0.4100         | *****  | 0.4200           | 0.6407 |
| 0.5100         | *****  | 0.5300           | 0.8258 |
| 0.7200         | *****  | 0.7300           | 1.0001 |
| 0.9100         | *****  | 0.9400           | 1.0052 |
| 1.1100         | *****  | 1.1500           | 0.9981 |
| 1.3000         | *****  | 1.3500           | 0.9963 |
| 1.5300         | *****  | 1.5500           | 1.0026 |
| 1.7400         | *****  | 1.7500           | 1.0005 |
| 1.9400         | *****  | 1.9500           | 1.0024 |
| 2.1400         | *****  | 2.1600           | 1.0022 |
| 2.3500         | *****  | 2.3700           | 0.9986 |
| 2.5500         | *****  | 2.5800           | 0.9942 |

\*\*\*\*\* - no data

Flight 27 Test point 22

Sweep, deg = 20.0 Mach = 0.81 hp, ft = 34900. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 231.2 Rrho = 2014000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7262                                 | 0.3202                                  | 0.0941                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3643 |
| 0.0500         | *****  | 0.0700           | 0.3591 |
| 0.1100         | *****  | 0.1200           | 0.1994 |
| 0.1700         | *****  | 0.1800           | 0.1618 |
| 0.2200         | *****  | 0.2100           | 0.2888 |
| 0.2700         | *****  | 0.2700           | 0.4475 |
| 0.3200         | *****  | 0.3100           | 0.5607 |
| 0.3600         | *****  | 0.3700           | 0.6569 |
| 0.4100         | *****  | 0.4200           | 0.7451 |
| 0.5100         | *****  | 0.5300           | 0.8930 |
| 0.7200         | *****  | 0.7300           | 1.0019 |
| 0.9100         | *****  | 0.9400           | 1.0039 |
| 1.1100         | *****  | 1.1500           | 0.9988 |
| 1.3000         | *****  | 1.3500           | 0.9963 |
| 1.5300         | *****  | 1.5500           | 1.0036 |
| 1.7400         | *****  | 1.7500           | 1.0016 |
| 1.9400         | *****  | 1.9500           | 1.0034 |
| 2.1400         | *****  | 2.1600           | 0.9999 |
| 2.3500         | *****  | 2.3700           | 0.9980 |
| 2.5500         | *****  | 2.5800           | 0.9946 |

\*\*\*\*\* - no data

Flight 27 Test point 23

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 223.1 Rho = 1960000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.9039                                 | 0.4030                                  | 0.0989                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.0917 |
| 0.0500         | *****  | 0.0700           | 0.0616 |
| 0.1100         | *****  | 0.1200           | 0.1687 |
| 0.1700         | *****  | 0.1800           | 0.1853 |
| 0.2200         | *****  | 0.2100           | 0.1834 |
| 0.2700         | *****  | 0.2700           | 0.3193 |
| 0.3200         | *****  | 0.3100           | 0.4145 |
| 0.3600         | *****  | 0.3700           | 0.5049 |
| 0.4100         | *****  | 0.4200           | 0.5899 |
| 0.5100         | *****  | 0.5300           | 0.7666 |
| 0.7200         | *****  | 0.7300           | 0.9829 |
| 0.9100         | *****  | 0.9400           | 1.0032 |
| 1.1100         | *****  | 1.1500           | 0.9975 |
| 1.3000         | *****  | 1.3500           | 0.9953 |
| 1.5300         | *****  | 1.5500           | 1.0017 |
| 1.7400         | *****  | 1.7500           | 1.0009 |
| 1.9400         | *****  | 1.9500           | 1.0034 |
| 2.1400         | *****  | 2.1600           | 1.0004 |
| 2.3500         | *****  | 2.3700           | 0.9993 |
| 2.5500         | *****  | 2.5800           | 0.9984 |

\*\*\*\*\* - no data

Flight 27 Test point 24

Sweep, deg = 25.3 Mach = 0.81 hp, ft = 35500. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 220.3 Rho = 1935000.

|                       |                               |                                |                            |                     |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7225                        | 0.2599                         | 0.0858                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3756 |
| 0.0500         | *****  | 0.0700           | 0.3002 |
| 0.1100         | *****  | 0.1200           | 0.2505 |
| 0.1700         | *****  | 0.1800           | 0.4137 |
| 0.2200         | *****  | 0.2100           | 0.5159 |
| 0.2700         | *****  | 0.2700           | 0.6250 |
| 0.3200         | *****  | 0.3100           | 0.7088 |
| 0.3600         | *****  | 0.3700           | 0.7775 |
| 0.4100         | *****  | 0.4200           | 0.8436 |
| 0.5100         | *****  | 0.5300           | 0.9460 |
| 0.7200         | *****  | 0.7300           | 1.0019 |
| 0.9100         | *****  | 0.9400           | 1.0028 |
| 1.1100         | *****  | 1.1500           | 0.9974 |
| 1.3000         | *****  | 1.3500           | 0.9950 |
| 1.5300         | *****  | 1.5500           | 1.0029 |
| 1.7400         | *****  | 1.7500           | 1.0015 |
| 1.9400         | *****  | 1.9500           | 1.0024 |
| 2.1400         | *****  | 2.1600           | 1.0002 |
| 2.3500         | *****  | 2.3700           | 0.9987 |
| 2.5500         | *****  | 2.5800           | 0.9974 |

\*\*\*\*\* - no data

Flight 27 Test point 25

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 2.6  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 224.1 Rrho = 1971000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | *****                      | *****                       | *****                   | none             |
| Outboard station rake | 1.4970                     | 0.6715                      | 0.1489                  | 0.1 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.1341 |
| 0.0500         | *****  | 0.0700           | 0.1549 |
| 0.1100         | *****  | 0.1200           | 0.1066 |
| 0.1700         | *****  | 0.1800           | 0.1702 |
| 0.2200         | *****  | 0.2100           | 0.2477 |
| 0.2700         | *****  | 0.2700           | 0.2297 |
| 0.3200         | *****  | 0.3100           | 0.1699 |
| 0.3600         | *****  | 0.3700           | 0.2024 |
| 0.4100         | *****  | 0.4200           | 0.1198 |
| 0.5100         | *****  | 0.5300           | 0.2761 |
| 0.7200         | *****  | 0.7300           | 0.6003 |
| 0.9100         | *****  | 0.9400           | 0.8726 |
| 1.1100         | *****  | 1.1500           | 0.9804 |
| 1.3000         | *****  | 1.3500           | 0.9923 |
| 1.5300         | *****  | 1.5500           | 1.0011 |
| 1.7400         | *****  | 1.7500           | 1.0014 |
| 1.9400         | *****  | 1.9500           | 1.0032 |
| 2.1400         | *****  | 2.1600           | 1.0010 |
| 2.3500         | *****  | 2.3700           | 0.9994 |
| 2.5500         | *****  | 2.5800           | 1.0015 |

\*\*\*\*\* - no data

Flight 27 Test point 26

Sweep, deg = 30.4 Mach = 0.81 hp, ft = 35000. Angle of attack, deg = 2.1  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 225.7 Rnpu = 1990000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7274                        | 0.3221                         | 0.0977                     | 0.1 x/c             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.1703             |
| 0.0500         | *****              | 0.0700           | 0.1739             |
| 0.1100         | *****              | 0.1200           | 0.2602             |
| 0.1700         | *****              | 0.1800           | 0.3294             |
| 0.2200         | *****              | 0.2100           | 0.3634             |
| 0.2700         | *****              | 0.2700           | 0.4643             |
| 0.3200         | *****              | 0.3100           | 0.5641             |
| 0.3600         | *****              | 0.3700           | 0.6369             |
| 0.4100         | *****              | 0.4200           | 0.7330             |
| 0.5100         | *****              | 0.5300           | 0.8771             |
| 0.7200         | *****              | 0.7300           | 1.0015             |
| 0.9100         | *****              | 0.9400           | 1.0037             |
| 1.1100         | *****              | 1.1500           | 0.9984             |
| 1.3000         | *****              | 1.3500           | 0.9958             |
| 1.5300         | *****              | 1.5500           | 1.0028             |
| 1.7400         | *****              | 1.7500           | 1.0009             |
| 1.9400         | *****              | 1.9500           | 1.0021             |
| 2.1400         | *****              | 2.1600           | 0.9998             |
| 2.3500         | *****              | 2.3700           | 0.9986             |
| 2.5500         | *****              | 2.5800           | 0.9969             |

\*\*\*\*\* - no data

Flight 27 Test point 27

Sweep, deg = 30.4 Mach = 0.80 hp, ft = 35100. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.6 QBAR, lb/ft<sup>2</sup> = 220.2 Rrho = 1957000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7143                                 | 0.2011                                  | 0.0889                              | 0.1 x/c                     |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.4225             |
| 0.0500         | *****              | 0.0700           | 0.4709             |
| 0.1100         | *****              | 0.1200           | 0.5387             |
| 0.1700         | *****              | 0.1800           | 0.6045             |
| 0.2200         | *****              | 0.2100           | 0.6337             |
| 0.2700         | *****              | 0.2700           | 0.7007             |
| 0.3200         | *****              | 0.3100           | 0.7584             |
| 0.3600         | *****              | 0.3700           | 0.8084             |
| 0.4100         | *****              | 0.4200           | 0.8595             |
| 0.5100         | *****              | 0.5300           | 0.9589             |
| 0.7200         | *****              | 0.7300           | 1.0031             |
| 0.9100         | *****              | 0.9400           | 1.0044             |
| 1.1100         | *****              | 1.1500           | 0.9963             |
| 1.3000         | *****              | 1.3500           | 0.9932             |
| 1.5300         | *****              | 1.5500           | 1.0020             |
| 1.7400         | *****              | 1.7500           | 0.9995             |
| 1.9400         | *****              | 1.9500           | 1.0031             |
| 2.1400         | *****              | 2.1600           | 0.9999             |
| 2.3500         | *****              | 2.3700           | 0.9991             |
| 2.5500         | *****              | 2.5800           | 0.9995             |

\*\*\*\*\* - no data



Flight 27 Test point 28

Sweep, deg = 34.9 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 2.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 225.3 Rrho = 1971000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7283                                 | 0.2217                                  | 0.1014                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4747 |
| 0.0500         | *****  | 0.0700           | 0.4937 |
| 0.1100         | *****  | 0.1200           | 0.5495 |
| 0.1700         | *****  | 0.1800           | 0.5894 |
| 0.2200         | *****  | 0.2100           | 0.6152 |
| 0.2700         | *****  | 0.2700           | 0.6681 |
| 0.3200         | *****  | 0.3100           | 0.7194 |
| 0.3600         | *****  | 0.3700           | 0.7627 |
| 0.4100         | *****  | 0.4200           | 0.8123 |
| 0.5100         | *****  | 0.5300           | 0.9043 |
| 0.7200         | *****  | 0.7300           | 1.0007 |
| 0.9100         | *****  | 0.9400           | 1.0040 |
| 1.1100         | *****  | 1.1500           | 0.9970 |
| 1.3000         | *****  | 1.3500           | 0.9944 |
| 1.5300         | *****  | 1.5500           | 1.0017 |
| 1.7400         | *****  | 1.7500           | 0.9998 |
| 1.9400         | *****  | 1.9500           | 1.0029 |
| 2.1400         | *****  | 2.1600           | 0.9987 |
| 2.3500         | *****  | 2.3700           | 0.9986 |
| 2.5500         | *****  | 2.5800           | 1.0021 |

\*\*\*\*\* - no data

Flight 27 Test point 29

Sweep, deg = 34.8 Mach = 0.79 hp, ft = 35300. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 216.9 Rho = 1926000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5746                                 | 0.1657                                  | 0.0766                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5104 |
| 0.0500         | *****  | 0.0700           | 0.5473 |
| 0.1100         | *****  | 0.1200           | 0.6097 |
| 0.1700         | *****  | 0.1800           | 0.6695 |
| 0.2200         | *****  | 0.2100           | 0.7075 |
| 0.2700         | *****  | 0.2700           | 0.7639 |
| 0.3200         | *****  | 0.3100           | 0.8153 |
| 0.3600         | *****  | 0.3700           | 0.8599 |
| 0.4100         | *****  | 0.4200           | 0.9063 |
| 0.5100         | *****  | 0.5300           | 0.9749 |
| 0.7200         | *****  | 0.7300           | 1.0045 |
| 0.9100         | *****  | 0.9400           | 1.0057 |
| 1.1100         | *****  | 1.1500           | 0.9975 |
| 1.3000         | *****  | 1.3500           | 0.9933 |
| 1.5300         | *****  | 1.5500           | 1.0039 |
| 1.7400         | *****  | 1.7500           | 1.0013 |
| 1.9400         | *****  | 1.9500           | 1.0069 |
| 2.1400         | *****  | 2.1600           | 1.0030 |
| 2.3500         | *****  | 2.3700           | 1.0028 |
| 2.5500         | *****  | 2.5800           | 1.0061 |

\*\*\*\*\* - no data

Flight 27 Test point 30

Sweep, deg = 34.8 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 224.9 Rrho = 1979000.

|                       |                |                |                |            |
|-----------------------|----------------|----------------|----------------|------------|
|                       | Boundary layer | Displacement   | Momentum       | Transition |
|                       | height, in.    | thickness, in. | thickness, in. | strip      |
| Middle station rake   | *****          | *****          | *****          | none       |
| Outboard station rake | 0.7272         | 0.2125         | 0.0983         | 0.1 x/c    |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4785 |
| 0.0500         | *****  | 0.0700           | 0.5033 |
| 0.1100         | *****  | 0.1200           | 0.5654 |
| 0.1700         | *****  | 0.1800           | 0.6113 |
| 0.2200         | *****  | 0.2100           | 0.6392 |
| 0.2700         | *****  | 0.2700           | 0.6924 |
| 0.3200         | *****  | 0.3100           | 0.7374 |
| 0.3600         | *****  | 0.3700           | 0.7810 |
| 0.4100         | *****  | 0.4200           | 0.8238 |
| 0.5100         | *****  | 0.5300           | 0.9122 |
| 0.7200         | *****  | 0.7300           | 1.0011 |
| 0.9100         | *****  | 0.9400           | 1.0051 |
| 1.1100         | *****  | 1.1500           | 0.9980 |
| 1.3000         | *****  | 1.3500           | 0.9931 |
| 1.5300         | *****  | 1.5500           | 1.0009 |
| 1.7400         | *****  | 1.7500           | 1.0001 |
| 1.9400         | *****  | 1.9500           | 1.0022 |
| 2.1400         | *****  | 2.1600           | 0.9997 |
| 2.3500         | *****  | 2.3700           | 0.9996 |
| 2.5500         | *****  | 2.5800           | 1.0001 |

\*\*\*\*\* - no data

Flight 27 Test point 31

Sweep, deg = 34.8 Mach = 0.83 hp, ft = 35000. Angle of attack, deg = 2.2  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 239.0 Rrho = 2036000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.8979                        | 0.3519                         | 0.1131                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.2380 |
| 0.0500         | *****  | 0.0700           | 0.2283 |
| 0.1100         | *****  | 0.1200           | 0.2829 |
| 0.1700         | *****  | 0.1800           | 0.3233 |
| 0.2200         | *****  | 0.2100           | 0.3437 |
| 0.2700         | *****  | 0.2700           | 0.4313 |
| 0.3200         | *****  | 0.3100           | 0.5126 |
| 0.3600         | *****  | 0.3700           | 0.5780 |
| 0.4100         | *****  | 0.4200           | 0.6541 |
| 0.5100         | *****  | 0.5300           | 0.8000 |
| 0.7200         | *****  | 0.7300           | 0.9806 |
| 0.9100         | *****  | 0.9400           | 1.0043 |
| 1.1100         | *****  | 1.1500           | 0.9998 |
| 1.3000         | *****  | 1.3500           | 0.9973 |
| 1.5300         | *****  | 1.5500           | 1.0008 |
| 1.7400         | *****  | 1.7500           | 1.0013 |
| 1.9400         | *****  | 1.9500           | 1.0042 |
| 2.1400         | *****  | 2.1600           | 0.9977 |
| 2.3500         | *****  | 2.3700           | 0.9991 |
| 2.5500         | *****  | 2.5800           | 0.9953 |

\*\*\*\*\* - no data

Flight 27 Test point 32

Sweep, deg = 30.1 Mach = 0.83 hp, ft = 35000. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 237.6 Rnpu = 2036000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7136                        | 0.2529                         | 0.0845                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.2097 |
| 0.0500         | *****  | 0.0700           | 0.2682 |
| 0.1100         | *****  | 0.1200           | 0.3867 |
| 0.1700         | *****  | 0.1800           | 0.4707 |
| 0.2200         | *****  | 0.2100           | 0.5377 |
| 0.2700         | *****  | 0.2700           | 0.6349 |
| 0.3200         | *****  | 0.3100           | 0.7159 |
| 0.3600         | *****  | 0.3700           | 0.7868 |
| 0.4100         | *****  | 0.4200           | 0.8512 |
| 0.5100         | *****  | 0.5300           | 0.9503 |
| 0.7200         | *****  | 0.7300           | 1.0039 |
| 0.9100         | *****  | 0.9400           | 1.0050 |
| 1.1100         | *****  | 1.1500           | 0.9989 |
| 1.3000         | *****  | 1.3500           | 0.9977 |
| 1.5300         | *****  | 1.5500           | 1.0035 |
| 1.7400         | *****  | 1.7500           | 1.0021 |
| 1.9400         | *****  | 1.9500           | 1.0047 |
| 2.1400         | *****  | 2.1600           | 1.0015 |
| 2.3500         | *****  | 2.3700           | 0.9929 |
| 2.5500         | *****  | 2.5800           | 0.9899 |

\*\*\*\*\* - no data

Flight 27 Test point 33

Sweep, deg = 20.1 Mach = 0.75 hp, ft = 25000. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 311.9 Rrho = 2743000.

|                       |                |                |                |            |
|-----------------------|----------------|----------------|----------------|------------|
|                       | Boundary layer | Displacement   | Momentum       | Transition |
|                       | height, in.    | thickness, in. | thickness, in. | strip      |
| Middle station rake   | *****          | *****          | *****          | none       |
| Outboard station rake | 0.7191         | 0.2108         | 0.0851         | 0.1 x/c    |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5061 |
| 0.0500         | *****  | 0.0700           | 0.3014 |
| 0.1100         | *****  | 0.1200           | 0.3835 |
| 0.1700         | *****  | 0.1800           | 0.5416 |
| 0.2200         | *****  | 0.2100           | 0.6157 |
| 0.2700         | *****  | 0.2700           | 0.7011 |
| 0.3200         | *****  | 0.3100           | 0.7649 |
| 0.3600         | *****  | 0.3700           | 0.8233 |
| 0.4100         | *****  | 0.4200           | 0.8778 |
| 0.5100         | *****  | 0.5300           | 0.9662 |
| 0.7200         | *****  | 0.7300           | 1.0017 |
| 0.9100         | *****  | 0.9400           | 1.0016 |
| 1.1100         | *****  | 1.1500           | 0.9967 |
| 1.3000         | *****  | 1.3500           | 0.9960 |
| 1.5300         | *****  | 1.5500           | 1.0016 |
| 1.7400         | *****  | 1.7500           | 1.0002 |
| 1.9400         | *****  | 1.9500           | 1.0015 |
| 2.1400         | *****  | 2.1600           | 0.9996 |
| 2.3500         | *****  | 2.3700           | 0.9993 |
| 2.5500         | *****  | 2.5800           | 1.0017 |

\*\*\*\*\* - no data

Flight 28 Test point 1

Sweep, deg = 20.1 Mach = 0.80 hp, ft = 34900. Angle of attack, deg = 2.2  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 224.2 Rnpu = 2026000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 1.1916                                 | 0.5719                                  | 0.1345                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.1581 |
| 0.0500         | *****  | 0.0700           | 0.1992 |
| 0.1100         | *****  | 0.1200           | 0.1740 |
| 0.1700         | *****  | 0.1800           | 0.2079 |
| 0.2200         | *****  | 0.2100           | 0.2801 |
| 0.2700         | *****  | 0.2700           | 0.2618 |
| 0.3200         | *****  | 0.3100           | 0.1990 |
| 0.3600         | *****  | 0.3700           | 0.1534 |
| 0.4100         | *****  | 0.4200           | 0.1751 |
| 0.5100         | *****  | 0.5300           | 0.4207 |
| 0.7200         | *****  | 0.7300           | 0.7622 |
| 0.9100         | *****  | 0.9400           | 0.9639 |
| 1.1100         | *****  | 1.1500           | 0.9945 |
| 1.3000         | *****  | 1.3500           | 0.9961 |
| 1.5300         | *****  | 1.5500           | 1.0021 |
| 1.7400         | *****  | 1.7500           | 1.0016 |
| 1.9400         | *****  | 1.9500           | 1.0040 |
| 2.1400         | *****  | 2.1600           | 0.9995 |
| 2.3500         | *****  | 2.3700           | 1.0006 |
| 2.5500         | *****  | 2.5800           | 1.0015 |

\*\*\*\*\* - no data

Flight 28 Test point 2

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 34800. Angle of attack, deg = 2.5  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 225.4 Rrho = 2032000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.9189                        | 0.4368                         | 0.1035                     | 0.1 x/c             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.2041             |
| 0.0500         | *****              | 0.0700           | 0.2470             |
| 0.1100         | *****              | 0.1200           | 0.1542             |
| 0.1700         | *****              | 0.1800           | 0.1048             |
| 0.2200         | *****              | 0.2100           | 0.1473             |
| 0.2700         | *****              | 0.2700           | 0.1870             |
| 0.3200         | *****              | 0.3100           | 0.2971             |
| 0.3600         | *****              | 0.3700           | 0.3935             |
| 0.4100         | *****              | 0.4200           | 0.4991             |
| 0.5100         | *****              | 0.5300           | 0.7013             |
| 0.7200         | *****              | 0.7300           | 0.9696             |
| 0.9100         | *****              | 0.9400           | 1.0030             |
| 1.1100         | *****              | 1.1500           | 0.9980             |
| 1.3000         | *****              | 1.3500           | 0.9950             |
| 1.5300         | *****              | 1.5500           | 1.0012             |
| 1.7400         | *****              | 1.7500           | 1.0019             |
| 1.9400         | *****              | 1.9500           | 1.0038             |
| 2.1400         | *****              | 2.1600           | 0.9983             |
| 2.3500         | *****              | 2.3700           | 1.0002             |
| 2.5500         | *****              | 2.5800           | 0.9985             |

\*\*\*\*\* - no data



Flight 28 Test point 3

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 34400. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 230.9 Rnpx = 2072000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7284                        | 0.2897                         | 0.0917                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4902 |
| 0.0500         | *****  | 0.0700           | 0.4656 |
| 0.1100         | *****  | 0.1200           | 0.2783 |
| 0.1700         | *****  | 0.1800           | 0.1646 |
| 0.2200         | *****  | 0.2100           | 0.3466 |
| 0.2700         | *****  | 0.2700           | 0.5072 |
| 0.3200         | *****  | 0.3100           | 0.6204 |
| 0.3600         | *****  | 0.3700           | 0.7112 |
| 0.4100         | *****  | 0.4200           | 0.7937 |
| 0.5100         | *****  | 0.5300           | 0.9215 |
| 0.7200         | *****  | 0.7300           | 1.0006 |
| 0.9100         | *****  | 0.9400           | 1.0040 |
| 1.1100         | *****  | 1.1500           | 0.9994 |
| 1.3000         | *****  | 1.3500           | 0.9959 |
| 1.5300         | *****  | 1.5500           | 1.0030 |
| 1.7400         | *****  | 1.7500           | 1.0014 |
| 1.9400         | *****  | 1.9500           | 1.0023 |
| 2.1400         | *****  | 2.1600           | 1.0007 |
| 2.3500         | *****  | 2.3700           | 0.9967 |
| 2.5500         | *****  | 2.5800           | 0.9961 |

\*\*\*\*\* - no data

Flight 28 Test point 4

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 33700. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 238.0 Rnpu = 2128000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.9104                        | 0.4262                         | 0.0969                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.1104 |
| 0.0500         | *****  | 0.0700           | 0.0684 |
| 0.1100         | *****  | 0.1200           | 0.1301 |
| 0.1700         | *****  | 0.1800           | 0.1541 |
| 0.2200         | *****  | 0.2100           | 0.1118 |
| 0.2700         | *****  | 0.2700           | 0.2580 |
| 0.3200         | *****  | 0.3100           | 0.3546 |
| 0.3600         | *****  | 0.3700           | 0.4435 |
| 0.4100         | *****  | 0.4200           | 0.5414 |
| 0.5100         | *****  | 0.5300           | 0.7353 |
| 0.7200         | *****  | 0.7300           | 0.9784 |
| 0.9100         | *****  | 0.9400           | 1.0032 |
| 1.1100         | *****  | 1.1500           | 0.9971 |
| 1.3000         | *****  | 1.3500           | 0.9953 |
| 1.5300         | *****  | 1.5500           | 1.0024 |
| 1.7400         | *****  | 1.7500           | 1.0011 |
| 1.9400         | *****  | 1.9500           | 1.0034 |
| 2.1400         | *****  | 2.1600           | 0.9988 |
| 2.3500         | *****  | 2.3700           | 0.9991 |
| 2.5500         | *****  | 2.5800           | 0.9997 |

\*\*\*\*\* - no data

Flight 28 Test point 5

Sweep, deg = 25.4 Mach = 0.81 hp, ft = 35000. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 225.6 Rrho = 2034000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.9257                                 | 0.4419                                  | 0.0951                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.1136 |
| 0.0500         | *****  | 0.0700           | 0.0589 |
| 0.1100         | *****  | 0.1200           | 0.1139 |
| 0.1700         | *****  | 0.1800           | 0.1263 |
| 0.2200         | *****  | 0.2100           | 0.0359 |
| 0.2700         | *****  | 0.2700           | 0.2331 |
| 0.3200         | *****  | 0.3100           | 0.3480 |
| 0.3600         | *****  | 0.3700           | 0.4200 |
| 0.4100         | *****  | 0.4200           | 0.5218 |
| 0.5100         | *****  | 0.5300           | 0.7112 |
| 0.7200         | *****  | 0.7300           | 0.9698 |
| 0.9100         | *****  | 0.9400           | 1.0020 |
| 1.1100         | *****  | 1.1500           | 0.9956 |
| 1.3000         | *****  | 1.3500           | 0.9950 |
| 1.5300         | *****  | 1.5500           | 1.0017 |
| 1.7400         | *****  | 1.7500           | 1.0011 |
| 1.9400         | *****  | 1.9500           | 1.0029 |
| 2.1400         | *****  | 2.1600           | 1.0008 |
| 2.3500         | *****  | 2.3700           | 1.0004 |
| 2.5500         | *****  | 2.5300           | 1.0006 |

\*\*\*\*\* - no data

Flight 28 Test point 6

Sweep, deg = 25.4 Mach = 0.80 hp, ft = 35100. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 223.5 Rrho = 2021000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7249                        | 0.2576                         | 0.0849                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4034 |
| 0.0500         | *****  | 0.0700           | 0.3419 |
| 0.1100         | *****  | 0.1200           | 0.2271 |
| 0.1700         | *****  | 0.1800           | 0.4241 |
| 0.2200         | *****  | 0.2100           | 0.5077 |
| 0.2700         | *****  | 0.2700           | 0.6237 |
| 0.3200         | *****  | 0.3100           | 0.7140 |
| 0.3600         | *****  | 0.3700           | 0.7842 |
| 0.4100         | *****  | 0.4200           | 0.8493 |
| 0.5100         | *****  | 0.5300           | 0.9494 |
| 0.7200         | *****  | 0.7300           | 1.0012 |
| 0.9100         | *****  | 0.9400           | 1.0032 |
| 1.1100         | *****  | 1.1500           | 0.9970 |
| 1.3000         | *****  | 1.3500           | 0.9960 |
| 1.5300         | *****  | 1.5500           | 1.0021 |
| 1.7400         | *****  | 1.7500           | 1.0015 |
| 1.9400         | *****  | 1.9500           | 1.0037 |
| 2.1400         | *****  | 2.1600           | 1.0008 |
| 2.3500         | *****  | 2.3700           | 0.9978 |
| 2.5500         | *****  | 2.5800           | 0.9968 |

\*\*\*\*\* - no data

Flight 28 Test point 7

Sweep, deg = 25.4 Mach = 0.28 hp, ft = 26200. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 40.9 Rrho = 913000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.8139                                 | 0.3663                                  | 0.0959                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.1517 |
| 0.0500         | *****  | 0.0700           | 0.0676 |
| 0.1100         | *****  | 0.1200           | 0.1737 |
| 0.1700         | *****  | 0.1800           | 0.2384 |
| 0.2200         | *****  | 0.2100           | 0.2641 |
| 0.2700         | *****  | 0.2700           | 0.3804 |
| 0.3200         | *****  | 0.3100           | 0.4744 |
| 0.3600         | *****  | 0.3700           | 0.5716 |
| 0.4100         | *****  | 0.4200           | 0.6582 |
| 0.5100         | *****  | 0.5300           | 0.8288 |
| 0.7200         | *****  | 0.7300           | 0.9970 |
| 0.9100         | *****  | 0.9400           | 1.0039 |
| 1.1100         | *****  | 1.1500           | 0.9983 |
| 1.3000         | *****  | 1.3500           | 0.9957 |
| 1.5300         | *****  | 1.5500           | 1.0018 |
| 1.7400         | *****  | 1.7500           | 1.0018 |
| 1.9400         | *****  | 1.9500           | 1.0027 |
| 2.1400         | *****  | 2.1600           | 0.9993 |
| 2.3500         | *****  | 2.3700           | 0.9987 |
| 2.5500         | *****  | 2.5800           | 0.9978 |

\*\*\*\*\* - no data

Flight 28 Test point 8

Sweep, deg = 30.0 Mach = 0.80 hp, ft = 34900. Angle of attack, deg = 2.5  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 223.1 Rrho = 2021000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7284                                 | 0.3409                                  | 0.0998                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.1629 |
| 0.0500         | *****  | 0.0700           | 0.1587 |
| 0.1100         | *****  | 0.1200           | 0.2267 |
| 0.1700         | *****  | 0.1800           | 0.3156 |
| 0.2200         | *****  | 0.2100           | 0.3477 |
| 0.2700         | *****  | 0.2700           | 0.4362 |
| 0.3200         | *****  | 0.3100           | 0.5198 |
| 0.3600         | *****  | 0.3700           | 0.6042 |
| 0.4100         | *****  | 0.4200           | 0.6886 |
| 0.5100         | *****  | 0.5300           | 0.8499 |
| 0.7200         | *****  | 0.7300           | 1.0011 |
| 0.9100         | *****  | 0.9400           | 1.0061 |
| 1.1100         | *****  | 1.1500           | 0.9981 |
| 1.3000         | *****  | 1.3500           | 0.9942 |
| 1.5300         | *****  | 1.5500           | 1.0018 |
| 1.7400         | *****  | 1.7500           | 1.0008 |
| 1.9400         | *****  | 1.9500           | 1.0039 |
| 2.1400         | *****  | 2.1600           | 1.0016 |
| 2.3500         | *****  | 2.3700           | 0.9996 |
| 2.5500         | *****  | 2.5800           | 0.9941 |

\*\*\*\*\* - no data

Flight 28 Test point 9

Sweep, deg = 29.9 Mach = 0.80 hp, ft = 35100. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 219.8 Rrho = 2000000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7176                                 | 0.2075                                  | 0.0893                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3839 |
| 0.0500         | *****  | 0.0700           | 0.4380 |
| 0.1100         | *****  | 0.1200           | 0.5235 |
| 0.1700         | *****  | 0.1800           | 0.5822 |
| 0.2200         | *****  | 0.2100           | 0.6165 |
| 0.2700         | *****  | 0.2700           | 0.6896 |
| 0.3200         | *****  | 0.3100           | 0.7484 |
| 0.3600         | *****  | 0.3700           | 0.8052 |
| 0.4100         | *****  | 0.4200           | 0.8595 |
| 0.5100         | *****  | 0.5300           | 0.9597 |
| 0.7200         | *****  | 0.7300           | 1.0023 |
| 0.9100         | *****  | 0.9400           | 1.0053 |
| 1.1100         | *****  | 1.1500           | 0.9973 |
| 1.3000         | *****  | 1.3500           | 0.9950 |
| 1.5300         | *****  | 1.5500           | 1.0021 |
| 1.7400         | *****  | 1.7500           | 0.9987 |
| 1.9400         | *****  | 1.9500           | 1.0027 |
| 2.1400         | *****  | 2.1600           | 0.9997 |
| 2.3500         | *****  | 2.3700           | 0.9971 |
| 2.5500         | *****  | 2.5800           | 0.9998 |

\*\*\*\*\* - no data

Flight 28 Test point 10

Sweep, deg = 34.9 Mach = 0.81 hp, ft = 35200. Angle of attack, deg = 2.9  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 223.7 Rrho = 2017000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.8324                                 | 0.2762                                  | 0.1147                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3888 |
| 0.0500         | *****  | 0.0700           | 0.3971 |
| 0.1100         | *****  | 0.1200           | 0.4558 |
| 0.1700         | *****  | 0.1800           | 0.4948 |
| 0.2200         | *****  | 0.2100           | 0.5177 |
| 0.2700         | *****  | 0.2700           | 0.5745 |
| 0.3200         | *****  | 0.3100           | 0.6297 |
| 0.3600         | *****  | 0.3700           | 0.6806 |
| 0.4100         | *****  | 0.4200           | 0.7355 |
| 0.5100         | *****  | 0.5300           | 0.8460 |
| 0.7200         | *****  | 0.7300           | 0.9921 |
| 0.9100         | *****  | 0.9400           | 1.0074 |
| 1.1100         | *****  | 1.1500           | 0.9994 |
| 1.3000         | *****  | 1.3500           | 0.9956 |
| 1.5300         | *****  | 1.5500           | 1.0036 |
| 1.7400         | *****  | 1.7500           | 1***** |
| 1.9400         | *****  | 1.9500           | 1.0041 |
| 2.1400         | *****  | 2.1600           | 0.9970 |
| 2.3500         | *****  | 2.3700           | 0.9968 |
| 2.5500         | *****  | 2.5800           | 0.9961 |

\*\*\*\*\* - no data



Flight 28 Test point 11

Sweep, deg = 34.9 Mach = 0.80 hp, ft = 34400. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 226.1 Rrho = 2046000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7283                        | 0.1710                         | 0.0810                     | 0.1 x/c             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.5187             |
| 0.0500         | *****              | 0.0700           | 0.5509             |
| 0.1100         | *****              | 0.1200           | 0.6154             |
| 0.1700         | *****              | 0.1800           | 0.6612             |
| 0.2200         | *****              | 0.2100           | 0.6992             |
| 0.2700         | *****              | 0.2700           | 0.7593             |
| 0.3200         | *****              | 0.3100           | 0.8107             |
| 0.3600         | *****              | 0.3700           | 0.8533             |
| 0.4100         | *****              | 0.4200           | 0.8970             |
| 0.5100         | *****              | 0.5300           | 0.9661             |
| 0.7200         | *****              | 0.7300           | 1.0003             |
| 0.9100         | *****              | 0.9400           | 1.0041             |
| 1.1100         | *****              | 1.1500           | 0.9943             |
| 1.3000         | *****              | 1.3500           | 0.9926             |
| 1.5300         | *****              | 1.5500           | 1.0027             |
| 1.7400         | *****              | 1.7500           | 0.9987             |
| 1.9400         | *****              | 1.9500           | 1.0029             |
| 2.1400         | *****              | 2.1600           | 0.9995             |
| 2.3500         | *****              | 2.3700           | 1.0023             |
| 2.5500         | *****              | 2.5800           | 1.0026             |

\*\*\*\*\* - no data

Flight 28 Test point 12

Sweep, deg = 34.8 Mach = 0.80 hp, ft = 35800. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 214.2 Rrho = 1953000.

|                       |                               |                                |                            |                     |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7176                        | 0.1844                         | 0.0865                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5040 |
| 0.0500         | *****  | 0.0700           | 0.5284 |
| 0.1100         | *****  | 0.1200           | 0.5984 |
| 0.1700         | *****  | 0.1800           | 0.6488 |
| 0.2200         | *****  | 0.2100           | 0.6772 |
| 0.2700         | *****  | 0.2700           | 0.7382 |
| 0.3200         | *****  | 0.3100           | 0.7815 |
| 0.3600         | *****  | 0.3700           | 0.8239 |
| 0.4100         | *****  | 0.4200           | 0.8691 |
| 0.5100         | *****  | 0.5300           | 0.9550 |
| 0.7200         | *****  | 0.7300           | 1.0026 |
| 0.9100         | *****  | 0.9400           | 1.0023 |
| 1.1100         | *****  | 1.1500           | 0.9954 |
| 1.3000         | *****  | 1.3500           | 0.9915 |
| 1.5300         | *****  | 1.5500           | 1.0012 |
| 1.7400         | *****  | 1.7500           | 1.0004 |
| 1.9400         | *****  | 1.9500           | 1.0033 |
| 2.1400         | *****  | 2.1600           | 0.9997 |
| 2.3500         | *****  | 2.3700           | 1.0013 |
| 2.5500         | *****  | 2.5800           | 1.0022 |

\*\*\*\*\* - no data

Flight 28 Test point 13

Sweep, deg = 25.1 Mach = 0.80 hp, ft = 25400. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 344.9 Rrho = 2851000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | .7227                         | 0.2473                         | 0.0825                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4359 |
| 0.0500         | *****  | 0.0700           | 0.3628 |
| 0.1100         | *****  | 0.1200           | 0.2120 |
| 0.1700         | *****  | 0.1800           | 0.4156 |
| 0.2200         | *****  | 0.2100           | 0.5260 |
| 0.2700         | *****  | 0.2700           | 0.6373 |
| 0.3200         | *****  | 0.3100           | 0.7216 |
| 0.3600         | *****  | 0.3700           | 0.8004 |
| 0.4100         | *****  | 0.4200           | 0.8640 |
| 0.5100         | *****  | 0.5300           | 0.9627 |
| 0.7200         | *****  | 0.7300           | 1.0012 |
| 0.9100         | *****  | 0.9400           | 1.0027 |
| 1.1100         | *****  | 1.1500           | 0.9988 |
| 1.3000         | *****  | 1.3500           | 0.9976 |
| 1.5300         | *****  | 1.5500           | 1.0009 |
| 1.7400         | *****  | 1.7500           | 1.0008 |
| 1.9400         | *****  | 1.9500           | 1.0022 |
| 2.1400         | *****  | 2.1600           | 1.0000 |
| 2.3500         | *****  | 2.3700           | 0.9983 |
| 2.5500         | *****  | 2.5800           | 0.9974 |

\*\*\*\*\* - no data

Flight 28 Test point 14

Sweep, deg = 25.1 Mach = 0.80 hp, ft = 25800. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 336.2 Rrho = 2802000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | *****                      | *****                       | *****                   | none             |
| Outboard station rake | 0.7184                     | 0.2661                      | 0.0835                  | 0.1 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3897 |
| 0.0500         | *****  | 0.0700           | 0.3315 |
| 0.1100         | *****  | 0.1200           | 0.1677 |
| 0.1700         | *****  | 0.1800           | 0.3792 |
| 0.2200         | *****  | 0.2100           | 0.4873 |
| 0.2700         | *****  | 0.2700           | 0.6023 |
| 0.3200         | *****  | 0.3100           | 0.6917 |
| 0.3600         | *****  | 0.3700           | 0.7760 |
| 0.4100         | *****  | 0.4200           | 0.8434 |
| 0.5100         | *****  | 0.5300           | 0.9503 |
| 0.7200         | *****  | 0.7300           | 1.0027 |
| 0.9100         | *****  | 0.9400           | 1.0033 |
| 1.1100         | *****  | 1.1500           | 1.0001 |
| 1.3000         | *****  | 1.3500           | 0.9988 |
| 1.5300         | *****  | 1.5500           | 1.0022 |
| 1.7400         | *****  | 1.7500           | 1.0016 |
| 1.9400         | *****  | 1.9500           | 1.0030 |
| 2.1400         | *****  | 2.1600           | 0.9989 |
| 2.3500         | *****  | 2.3700           | 0.9957 |
| 2.5500         | *****  | 2.5800           | 0.9938 |

\*\*\*\*\* - no data

Flight 28 Test point 15

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25100. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 351.1 Rnpu = 2888000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | *****                      | *****                       | *****                   | none             |
| Outboard station rake | 0.7240                     | 0.2621                      | 0.0885                  | 0.1 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5580 |
| 0.0500         | *****  | 0.0700           | 0.5211 |
| 0.1100         | *****  | 0.1200           | 0.3153 |
| 0.1700         | *****  | 0.1800           | 0.2170 |
| 0.2200         | *****  | 0.2100           | 0.4050 |
| 0.2700         | *****  | 0.2700           | 0.5573 |
| 0.3200         | *****  | 0.3100           | 0.6650 |
| 0.3600         | *****  | 0.3700           | 0.7527 |
| 0.4100         | *****  | 0.4200           | 0.8293 |
| 0.5100         | *****  | 0.5300           | 0.9482 |
| 0.7200         | *****  | 0.7300           | 1.0014 |
| 0.9100         | *****  | 0.9400           | 1.0034 |
| 1.1100         | *****  | 1.1500           | 0.9988 |
| 1.3000         | *****  | 1.3500           | 0.9984 |
| 1.5300         | *****  | 1.5500           | 1.0010 |
| 1.7400         | *****  | 1.7500           | 1.0012 |
| 1.9400         | *****  | 1.9500           | 1.0016 |
| 2.1400         | *****  | 2.1600           | 1.0003 |
| 2.3500         | *****  | 2.3700           | 0.9972 |
| 2.5500         | *****  | 2.5800           | 0.9966 |

\*\*\*\*\* - no data

Flight 28 Test point 16

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 350.0 Rnpu = 2889000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7227                                 | 0.2726                                  | 0.0898                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5388 |
| 0.0500         | *****  | 0.0700           | 0.5179 |
| 0.1100         | *****  | 0.1200           | 0.3318 |
| 0.1700         | *****  | 0.1800           | 0.1715 |
| 0.2200         | *****  | 0.2100           | 0.3788 |
| 0.2700         | *****  | 0.2700           | 0.5363 |
| 0.3200         | *****  | 0.3100           | 0.6454 |
| 0.3600         | *****  | 0.3700           | 0.7345 |
| 0.4100         | *****  | 0.4200           | 0.8148 |
| 0.5100         | *****  | 0.5300           | 0.9369 |
| 0.7200         | *****  | 0.7300           | 1.0021 |
| 0.9100         | *****  | 0.9400           | 1.0028 |
| 1.1100         | *****  | 1.1500           | 0.9994 |
| 1.3000         | *****  | 1.3500           | 0.9984 |
| 1.5300         | *****  | 1.5500           | 1.0020 |
| 1.7400         | *****  | 1.7500           | 1.0009 |
| 1.9400         | *****  | 1.9500           | 1.0019 |
| 2.1400         | *****  | 2.1600           | 1.0004 |
| 2.3500         | *****  | 2.3700           | 0.9959 |
| 2.5500         | *****  | 2.5800           | 0.9960 |

\*\*\*\*\* - no data

Flight 28 Test point 17

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25100. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 350.9 Rrho = 2884000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7280                        | 0.2790                         | 0.0946                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.6569 |
| 0.0500         | *****  | 0.0700           | 0.6545 |
| 0.1100         | *****  | 0.1200           | 0.5168 |
| 0.1700         | *****  | 0.1800           | 0.3646 |
| 0.2200         | *****  | 0.2100           | 0.0880 |
| 0.2700         | *****  | 0.2700           | 0.4262 |
| 0.3200         | *****  | 0.3100           | 0.5661 |
| 0.3600         | *****  | 0.3700           | 0.6742 |
| 0.4100         | *****  | 0.4200           | 0.7647 |
| 0.5100         | *****  | 0.5300           | 0.9124 |
| 0.7200         | *****  | 0.7300           | 1.0008 |
| 0.9100         | *****  | 0.9400           | 1.0018 |
| 1.1100         | *****  | 1.1500           | 0.9988 |
| 1.3000         | *****  | 1.3500           | 0.9969 |
| 1.5300         | *****  | 1.5500           | 1.0019 |
| 1.7400         | *****  | 1.7500           | 1.0005 |
| 1.9400         | *****  | 1.9500           | 1.0023 |
| 2.1400         | *****  | 2.1600           | 1.0001 |
| 2.3500         | *****  | 2.3700           | 0.9992 |
| 2.5500         | *****  | 2.5800           | 0.9978 |

\*\*\*\*\* - no data

Flight 28 Test point 18

Sweep, deg = 27.3 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 272.0 Rrho = 2512000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | *****                      | *****                       | *****                   | none             |
| Outboard station rake | 0.5578                     | 0.1490                      | 0.0708                  | 0.1 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4866 |
| 0.0500         | *****  | 0.0700           | 0.5542 |
| 0.1100         | *****  | 0.1200           | 0.6374 |
| 0.1700         | *****  | 0.1800           | 0.6990 |
| 0.2200         | *****  | 0.2100           | 0.7428 |
| 0.2700         | *****  | 0.2700           | 0.8003 |
| 0.3200         | *****  | 0.3100           | 0.8483 |
| 0.3600         | *****  | 0.3700           | 0.8899 |
| 0.4100         | *****  | 0.4200           | 0.9268 |
| 0.5100         | *****  | 0.5300           | 0.9864 |
| 0.7200         | *****  | 0.7300           | 1.0023 |
| 0.9100         | *****  | 0.9400           | 1.0039 |
| 1.1100         | *****  | 1.1500           | 0.9986 |
| 1.3000         | *****  | 1.3500           | 0.9949 |
| 1.5300         | *****  | 1.5500           | 1.0021 |
| 1.7400         | *****  | 1.7500           | 1.0016 |
| 1.9400         | *****  | 1.9500           | 1.0044 |
| 2.1400         | *****  | 2.1600           | 1.0015 |
| 2.3500         | *****  | 2.3700           | 1.0006 |
| 2.5500         | *****  | 2.5800           | 1.0036 |

\*\*\*\*\* - no data



Flight 28 Test point 19

Sweep, deg = 27.3 Mach = 0.70 hp, ft = 23000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 296.8 Rrho = 2693000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5563                        | 0.1469                         | 0.0701                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4985 |
| 0.0500         | *****  | 0.0700           | 0.5626 |
| 0.1100         | *****  | 0.1200           | 0.6446 |
| 0.1700         | *****  | 0.1800           | 0.7046 |
| 0.2200         | *****  | 0.2100           | 0.7458 |
| 0.2700         | *****  | 0.2700           | 0.8029 |
| 0.3200         | *****  | 0.3100           | 0.8496 |
| 0.3600         | *****  | 0.3700           | 0.8904 |
| 0.4100         | *****  | 0.4200           | 0.9298 |
| 0.5100         | *****  | 0.5300           | 0.9875 |
| 0.7200         | *****  | 0.7300           | 1.0031 |
| 0.9100         | *****  | 0.9400           | 1.0031 |
| 1.1100         | *****  | 1.1500           | 0.9966 |
| 1.3000         | *****  | 1.3500           | 0.9963 |
| 1.5300         | *****  | 1.5500           | 1.0009 |
| 1.7400         | *****  | 1.7500           | 1.0025 |
| 1.9400         | *****  | 1.9500           | 1.0048 |
| 2.1400         | *****  | 2.1600           | 1.0019 |
| 2.3500         | *****  | 2.3700           | 1.0003 |
| 2.5500         | *****  | 2.5800           | 1.0028 |

\*\*\*\*\* - no data

Flight 28 Test point 20

Sweep, deg = 31.1 Mach = 0.71 hp, ft = 25000. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 273.6 Rrho = 2519000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5527                                 | 0.1382                                  | 0.0680                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5603 |
| 0.0500         | *****  | 0.0700           | 0.6019 |
| 0.1100         | *****  | 0.1200           | 0.6679 |
| 0.1700         | *****  | 0.1800           | 0.7203 |
| 0.2200         | *****  | 0.2100           | 0.7595 |
| 0.2700         | *****  | 0.2700           | 0.8136 |
| 0.3200         | *****  | 0.3100           | 0.8567 |
| 0.3600         | *****  | 0.3700           | 0.8973 |
| 0.4100         | *****  | 0.4200           | 0.9323 |
| 0.5100         | *****  | 0.5300           | 0.9894 |
| 0.7200         | *****  | 0.7300           | 1.0013 |
| 0.9100         | *****  | 0.9400           | 1.0048 |
| 1.1100         | *****  | 1.1500           | 0.9972 |
| 1.3000         | *****  | 1.3500           | 0.9953 |
| 1.5300         | *****  | 1.5500           | 1.0016 |
| 1.7400         | *****  | 1.7500           | 1.0013 |
| 1.9400         | *****  | 1.9500           | 1.0027 |
| 2.1400         | *****  | 2.1600           | 1.0023 |
| 2.3500         | *****  | 2.3700           | 1.0023 |
| 2.5500         | *****  | 2.5800           | 1.0018 |

\*\*\*\*\* - no data

Flight 28 Test point 21

Sweep, deg = 31.1 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 2.4  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 272.0 Rrho = 2510000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5653                                 | 0.1404                                  | 0.0689                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5597 |
| 0.0500         | *****  | 0.0700           | 0.5946 |
| 0.1100         | *****  | 0.1200           | 0.6634 |
| 0.1700         | *****  | 0.1800           | 0.7215 |
| 0.2200         | *****  | 0.2100           | 0.7535 |
| 0.2700         | *****  | 0.2700           | 0.8096 |
| 0.3200         | *****  | 0.3100           | 0.8542 |
| 0.3600         | *****  | 0.3700           | 0.8926 |
| 0.4100         | *****  | 0.4200           | 0.9326 |
| 0.5100         | *****  | 0.5300           | 0.9850 |
| 0.7200         | *****  | 0.7300           | 1.0025 |
| 0.9100         | *****  | 0.9400           | 1.0044 |
| 1.1100         | *****  | 1.1500           | 0.9979 |
| 1.3000         | *****  | 1.3500           | 0.9958 |
| 1.5300         | *****  | 1.5500           | 1.0027 |
| 1.7400         | *****  | 1.7500           | 1.0011 |
| 1.9400         | *****  | 1.9500           | 1.0050 |
| 2.1400         | *****  | 2.1600           | 1.0008 |
| 2.3500         | *****  | 2.3700           | 1.0012 |
| 2.5500         | *****  | 2.5800           | 1.0037 |

\*\*\*\*\* - no data

Flight 28 Test point 22

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 336.7 Rrho = 2982000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5566                                 | 0.1814                                  | 0.0712                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3874 |
| 0.0500         | *****  | 0.0700           | 0.1961 |
| 0.1100         | *****  | 0.1200           | 0.5195 |
| 0.1700         | *****  | 0.1800           | 0.6420 |
| 0.2200         | *****  | 0.2100           | 0.7012 |
| 0.2700         | *****  | 0.2700           | 0.7723 |
| 0.3200         | *****  | 0.3100           | 0.8277 |
| 0.3600         | *****  | 0.3700           | 0.8770 |
| 0.4100         | *****  | 0.4200           | 0.9199 |
| 0.5100         | *****  | 0.5300           | 0.9856 |
| 0.7200         | *****  | 0.7300           | 1.0022 |
| 0.9100         | *****  | 0.9400           | 1.0035 |
| 1.1100         | *****  | 1.1500           | 0.9987 |
| 1.3000         | *****  | 1.3500           | 0.9972 |
| 1.5300         | *****  | 1.5500           | 1.0016 |
| 1.7400         | *****  | 1.7500           | 1.0017 |
| 1.9400         | *****  | 1.9500           | 1.0043 |
| 2.1400         | *****  | 2.1600           | 1.0009 |
| 2.3500         | *****  | 2.3700           | 1.0018 |
| 2.5500         | *****  | 2.5800           | 1.0026 |

\*\*\*\*\* - no data

Flight 28 Test point 23

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 21300. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 317.2 Rrho = 2840000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7336                                 | 0.2005                                  | 0.0775                              | 0.1 x/c                     |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.7152             |
| 0.0500         | *****              | 0.0700           | 0.5490             |
| 0.1100         | *****              | 0.1200           | 0.1485             |
| 0.1700         | *****              | 0.1800           | 0.4919             |
| 0.2200         | *****              | 0.2100           | 0.6054             |
| 0.2700         | *****              | 0.2700           | 0.7107             |
| 0.3200         | *****              | 0.3100           | 0.7859             |
| 0.3600         | *****              | 0.3700           | 0.8476             |
| 0.4100         | *****              | 0.4200           | 0.8951             |
| 0.5100         | *****              | 0.5300           | 0.9729             |
| 0.7200         | *****              | 0.7300           | 0.9996             |
| 0.9100         | *****              | 0.9400           | 1.0024             |
| 1.1100         | *****              | 1.1500           | 0.9971             |
| 1.3000         | *****              | 1.3500           | 0.9951             |
| 1.5300         | *****              | 1.5500           | 1.0008             |
| 1.7400         | *****              | 1.7500           | 1.0014             |
| 1.9400         | *****              | 1.9500           | 1.0014             |
| 2.1400         | *****              | 2.1600           | 0.9996             |
| 2.3500         | *****              | 2.3700           | 1.0011             |
| 2.5500         | *****              | 2.5800           | 1.0015             |

\*\*\*\*\* - no data

Flight 28 Test point 24

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = 0.4 QBAR, lb/ft<sup>2</sup> = 354.0 Rrho = 2906000.

|                       |                               |                                |                            |                     |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7177                        | 0.2596                         | 0.0877                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5412 |
| 0.0500         | *****  | 0.0700           | 0.4985 |
| 0.1100         | *****  | 0.1200           | 0.2975 |
| 0.1700         | *****  | 0.1800           | 0.2413 |
| 0.2200         | *****  | 0.2100           | 0.4406 |
| 0.2700         | *****  | 0.2700           | 0.5750 |
| 0.3200         | *****  | 0.3100           | 0.6709 |
| 0.3600         | *****  | 0.3700           | 0.7603 |
| 0.4100         | *****  | 0.4200           | 0.8367 |
| 0.5100         | *****  | 0.5300           | 0.9500 |
| 0.7200         | *****  | 0.7300           | 1.0029 |
| 0.9100         | *****  | 0.9400           | 1.0016 |
| 1.1100         | *****  | 1.1500           | 0.9979 |
| 1.3000         | *****  | 1.3500           | 0.9970 |
| 1.5300         | *****  | 1.5500           | 1.0012 |
| 1.7400         | *****  | 1.7500           | 1.0005 |
| 1.9400         | *****  | 1.9500           | 1.0041 |
| 2.1400         | *****  | 2.1600           | 1.0016 |
| 2.3500         | *****  | 2.3700           | 0.9955 |
| 2.5500         | *****  | 2.5800           | 0.9978 |

\*\*\*\*\* - no data

Flight 28 Test point 25

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 24800. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 354.5 Rnpu = 2914000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7259                                 | 0.2634                                  | 0.0887                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5578 |
| 0.0500         | *****  | 0.0700           | 0.5203 |
| 0.1100         | *****  | 0.1200           | 0.3212 |
| 0.1700         | *****  | 0.1800           | 0.2043 |
| 0.2200         | *****  | 0.2100           | 0.4066 |
| 0.2700         | *****  | 0.2700           | 0.5545 |
| 0.3200         | *****  | 0.3100           | 0.6615 |
| 0.3600         | *****  | 0.3700           | 0.7530 |
| 0.4100         | *****  | 0.4200           | 0.8285 |
| 0.5100         | *****  | 0.5300           | 0.9456 |
| 0.7200         | *****  | 0.7300           | 1.0010 |
| 0.9100         | *****  | 0.9400           | 1.0027 |
| 1.1100         | *****  | 1.1500           | 0.9993 |
| 1.3000         | *****  | 1.3500           | 0.9986 |
| 1.5300         | *****  | 1.5500           | 1.0014 |
| 1.7400         | *****  | 1.7500           | 1.0013 |
| 1.9400         | *****  | 1.9500           | 1.0012 |
| 2.1400         | *****  | 2.1600           | 1.0001 |
| 2.3500         | *****  | 2.3700           | 0.9971 |
| 2.5500         | *****  | 2.5800           | 0.9972 |

\*\*\*\*\* - no data

Flight 28 Test point 26

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25200. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -4.9 QBAR, lb/ft<sup>2</sup> = 351.3 Rrho = 2882000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7283                        | 0.2807                         | 0.0920                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.6562 |
| 0.0500         | *****  | 0.0700           | 0.6522 |
| 0.1100         | *****  | 0.1200           | 0.5183 |
| 0.1700         | *****  | 0.1800           | 0.3572 |
| 0.2200         | *****  | 0.2100           | 0.0297 |
| 0.2700         | *****  | 0.2700           | 0.4161 |
| 0.3200         | *****  | 0.3100           | 0.5674 |
| 0.3600         | *****  | 0.3700           | 0.6765 |
| 0.4100         | *****  | 0.4200           | 0.7682 |
| 0.5100         | *****  | 0.5300           | 0.9162 |
| 0.7200         | *****  | 0.7300           | 1.0006 |
| 0.9100         | *****  | 0.9400           | 1.0028 |
| 1.1100         | *****  | 1.1500           | 0.9973 |
| 1.3000         | *****  | 1.3500           | 0.9980 |
| 1.5300         | *****  | 1.5500           | 1.0006 |
| 1.7400         | *****  | 1.7500           | 1.0018 |
| 1.9400         | *****  | 1.9500           | 1.0020 |
| 2.1400         | *****  | 2.1600           | 1.0011 |
| 2.3500         | *****  | 2.3700           | 0.9986 |
| 2.5500         | *****  | 2.5800           | 0.9972 |

\*\*\*\*\* - no data



Flight 28 Test point 27

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25400. Angle of attack, deg = 2.4  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 348.6 Rrho = 2873000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 1.2125                                 | 0.5981                                  | 0.1446                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.1917 |
| 0.0500         | *****  | 0.0700           | 0.2048 |
| 0.1100         | *****  | 0.1200           | 0.2304 |
| 0.1700         | *****  | 0.1800           | 0.2347 |
| 0.2200         | *****  | 0.2100           | 0.2802 |
| 0.2700         | *****  | 0.2700           | 0.2579 |
| 0.3200         | *****  | 0.3100           | 0.2524 |
| 0.3600         | *****  | 0.3700           | 0.2037 |
| 0.4100         | *****  | 0.4200           | 0.1206 |
| 0.5100         | *****  | 0.5300           | 0.3445 |
| 0.7200         | *****  | 0.7300           | 0.7158 |
| 0.9100         | *****  | 0.9400           | 0.9353 |
| 1.1100         | *****  | 1.1500           | 0.9862 |
| 1.3000         | *****  | 1.3500           | 0.9992 |
| 1.5300         | *****  | 1.5500           | 1.0040 |
| 1.7400         | *****  | 1.7500           | 1.0016 |
| 1.9400         | *****  | 1.9500           | 1.0038 |
| 2.1400         | *****  | 2.1600           | 1.0027 |
| 2.3500         | *****  | 2.3700           | 1.0020 |
| 2.5500         | *****  | 2.5800           | 1.0004 |

\*\*\*\*\* - no data

Flight 28 Test point 28

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 25000. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 307.8 Rrho = 2690000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7464                        | 0.2121                         | 0.0853                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5047 |
| 0.0500         | *****  | 0.0700           | 0.3040 |
| 0.1100         | *****  | 0.1200           | 0.3716 |
| 0.1700         | *****  | 0.1800           | 0.5427 |
| 0.2200         | *****  | 0.2100           | 0.6166 |
| 0.2700         | *****  | 0.2700           | 0.7039 |
| 0.3200         | *****  | 0.3100           | 0.7635 |
| 0.3600         | *****  | 0.3700           | 0.8268 |
| 0.4100         | *****  | 0.4200           | 0.8813 |
| 0.5100         | *****  | 0.5300           | 0.9643 |
| 0.7200         | *****  | 0.7300           | 0.9976 |
| 0.9100         | *****  | 0.9400           | 1.0036 |
| 1.1100         | *****  | 1.1500           | 0.9954 |
| 1.3000         | *****  | 1.3500           | 0.9971 |
| 1.5300         | *****  | 1.5500           | 0.9987 |
| 1.7400         | *****  | 1.7500           | 0.9985 |
| 1.9400         | *****  | 1.9500           | 1.0043 |
| 2.1400         | *****  | 2.1600           | 1.0008 |
| 2.3500         | *****  | 2.3700           | 1.0014 |
| 2.5500         | *****  | 2.5800           | 1.0025 |

\*\*\*\*\* - no data

Flight 28 Test point 29

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 25000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 309.4 Rnpu = 2696000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7237                                 | 0.2104                                  | 0.0843                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4940 |
| 0.0500         | *****  | 0.0700           | 0.3052 |
| 0.1100         | *****  | 0.1200           | 0.3710 |
| 0.1700         | *****  | 0.1800           | 0.5427 |
| 0.2200         | *****  | 0.2100           | 0.6166 |
| 0.2700         | *****  | 0.2700           | 0.6987 |
| 0.3200         | *****  | 0.3100           | 0.7685 |
| 0.3600         | *****  | 0.3700           | 0.8271 |
| 0.4100         | *****  | 0.4200           | 0.8782 |
| 0.5100         | *****  | 0.5300           | 0.9706 |
| 0.7200         | *****  | 0.7300           | 1.0008 |
| 0.9100         | *****  | 0.9400           | 1.0015 |
| 1.1100         | *****  | 1.1500           | 0.9986 |
| 1.3000         | *****  | 1.3500           | 0.9976 |
| 1.5300         | *****  | 1.5500           | 1.0017 |
| 1.7400         | *****  | 1.7500           | 0.9964 |
| 1.9400         | *****  | 1.9500           | 1.0022 |
| 2.1400         | *****  | 2.1600           | 1.0014 |
| 2.3500         | *****  | 2.3700           | 0.9993 |
| 2.5500         | *****  | 2.5800           | 1.0004 |

\*\*\*\*\* - no data

Flight 28 Test point 30

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 25700. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 298.9 Rrho = 2621000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | *****                      | *****                       | *****                   | none             |
| Outboard station rake | 0.7296                     | 0.2245                      | 0.0898                  | 0.1 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.7583 |
| 0.0500         | *****  | 0.0700           | 0.6619 |
| 0.1100         | *****  | 0.1200           | 0.3926 |
| 0.1700         | *****  | 0.1800           | 0.2453 |
| 0.2200         | *****  | 0.2100           | 0.4643 |
| 0.2700         | *****  | 0.2700           | 0.6111 |
| 0.3200         | *****  | 0.3100           | 0.7051 |
| 0.3600         | *****  | 0.3700           | 0.7810 |
| 0.4100         | *****  | 0.4200           | 0.8416 |
| 0.5100         | *****  | 0.5300           | 0.9479 |
| 0.7200         | *****  | 0.7300           | 1.0001 |
| 0.9100         | *****  | 0.9400           | 1.0021 |
| 1.1100         | *****  | 1.1500           | 0.9981 |
| 1.3000         | *****  | 1.3500           | 0.9943 |
| 1.5300         | *****  | 1.5500           | 1.0025 |
| 1.7400         | *****  | 1.7500           | 0.9995 |
| 1.9400         | *****  | 1.9500           | 1.0020 |
| 2.1400         | *****  | 2.1600           | 1.0005 |
| 2.3500         | *****  | 2.3700           | 1.0006 |
| 2.5500         | *****  | 2.5800           | 1.0004 |

\*\*\*\*\* - no data

Flight 28 Test point 31

Sweep, deg = 20.0 Mach = 0.76 hp, ft = 25000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 320.3 Rrho = 2749000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7273                        | 0.3162                         | 0.1042                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5234 |
| 0.0500         | *****  | 0.0700           | 0.5306 |
| 0.1100         | *****  | 0.1200           | 0.4131 |
| 0.1700         | *****  | 0.1800           | 0.2664 |
| 0.2200         | *****  | 0.2100           | 0.0998 |
| 0.2700         | *****  | 0.2700           | 0.3692 |
| 0.3200         | *****  | 0.3100           | 0.5033 |
| 0.3600         | *****  | 0.3700           | 0.6041 |
| 0.4100         | *****  | 0.4200           | 0.6948 |
| 0.5100         | *****  | 0.5300           | 0.8624 |
| 0.7200         | *****  | 0.7300           | 1.0017 |
| 0.9100         | *****  | 0.9400           | 1.0044 |
| 1.1100         | *****  | 1.1500           | 0.9976 |
| 1.3000         | *****  | 1.3500           | 0.9988 |
| 1.5300         | *****  | 1.5500           | 1.0001 |
| 1.7400         | *****  | 1.7500           | 1.0006 |
| 1.9400         | *****  | 1.9500           | 1.0030 |
| 2.1400         | *****  | 2.1600           | 0.9998 |
| 2.3500         | *****  | 2.3700           | 0.9986 |
| 2.5500         | *****  | 2.5800           | 0.9970 |

\*\*\*\*\* - no data

Flight 28 Test point 32

Sweep, deg = 25.4 Mach = 0.75 hp, ft = 25000. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 308.0 Rrho = 2689000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5741                        | 0.1821                         | 0.0759                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.2639 |
| 0.0500         | *****  | 0.0700           | 0.4342 |
| 0.1100         | *****  | 0.1200           | 0.5628 |
| 0.1700         | *****  | 0.1800           | 0.6518 |
| 0.2200         | *****  | 0.2100           | 0.6889 |
| 0.2700         | *****  | 0.2700           | 0.7543 |
| 0.3200         | *****  | 0.3100           | 0.8064 |
| 0.3600         | *****  | 0.3700           | 0.8607 |
| 0.4100         | *****  | 0.4200           | 0.9062 |
| 0.5100         | *****  | 0.5300           | 0.9751 |
| 0.7200         | *****  | 0.7300           | 1.0030 |
| 0.9100         | *****  | 0.9400           | 1.0037 |
| 1.1100         | *****  | 1.1500           | 0.9980 |
| 1.3000         | *****  | 1.3500           | 0.9998 |
| 1.5300         | *****  | 1.5500           | 1.0039 |
| 1.7400         | *****  | 1.7500           | 1.0013 |
| 1.9400         | *****  | 1.9500           | 1.0045 |
| 2.1400         | *****  | 2.1600           | 1.0036 |
| 2.3500         | *****  | 2.3700           | 1.0043 |
| 2.5500         | *****  | 2.5800           | 1.0026 |

\*\*\*\*\* - no data

Flight 28 Test point 33

Sweep, deg = 25.4 Mach = 0.75 hp, ft = 25000. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 307.8 Rho = 2688000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5579                                 | 0.1747                                  | 0.0740                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.2991 |
| 0.0500         | *****  | 0.0700           | 0.4485 |
| 0.1100         | *****  | 0.1200           | 0.5744 |
| 0.1700         | *****  | 0.1800           | 0.6586 |
| 0.2200         | *****  | 0.2100           | 0.7072 |
| 0.2700         | *****  | 0.2700           | 0.7700 |
| 0.3200         | *****  | 0.3100           | 0.8200 |
| 0.3600         | *****  | 0.3700           | 0.8684 |
| 0.4100         | *****  | 0.4200           | 0.9117 |
| 0.5100         | *****  | 0.5300           | 0.9834 |
| 0.7200         | *****  | 0.7300           | 1.0032 |
| 0.9100         | *****  | 0.9400           | 1.0050 |
| 1.1100         | *****  | 1.1500           | 0.9990 |
| 1.3000         | *****  | 1.3500           | 0.9955 |
| 1.5300         | *****  | 1.5500           | 1.0015 |
| 1.7400         | *****  | 1.7500           | 1.0008 |
| 1.9400         | *****  | 1.9500           | 1.0040 |
| 2.1400         | *****  | 2.1600           | 1.0025 |
| 2.3500         | *****  | 2.3700           | 1.0021 |
| 2.5500         | *****  | 2.5800           | 1.0029 |

\*\*\*\*\* - no data

Flight 28 Test point 34

Sweep, deg = 25.4 Mach = 0.75 hp, ft = 25500. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 298.0 Rrho = 2625000.

|                       | Boundary layer height, In. | Displacement thickness, In. | Momentum thickness, In. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | *****                      | *****                       | *****                   | none             |
| Outboard station rake | 0.5588                     | 0.1710                      | 0.0737                  | 0.1 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, In.         | U/Umax | Y, In.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3343 |
| 0.0500         | *****  | 0.0700           | 0.4598 |
| 0.1100         | *****  | 0.1200           | 0.5813 |
| 0.1700         | *****  | 0.1800           | 0.6597 |
| 0.2200         | *****  | 0.2100           | 0.7065 |
| 0.2700         | *****  | 0.2700           | 0.7711 |
| 0.3200         | *****  | 0.3100           | 0.8268 |
| 0.3600         | *****  | 0.3700           | 0.8746 |
| 0.4100         | *****  | 0.4200           | 0.9171 |
| 0.5100         | *****  | 0.5300           | 0.9841 |
| 0.7200         | *****  | 0.7300           | 1.0027 |
| 0.9100         | *****  | 0.9400           | 1.0041 |
| 1.1100         | *****  | 1.1500           | 0.9984 |
| 1.3000         | *****  | 1.3500           | 0.9962 |
| 1.5300         | *****  | 1.5500           | 1.0024 |
| 1.7400         | *****  | 1.7500           | 1.0012 |
| 1.9400         | *****  | 1.9500           | 1.0036 |
| 2.1400         | *****  | 2.1600           | 1.0021 |
| 2.3500         | *****  | 2.3700           | 1.0018 |
| 2.5500         | *****  | 2.5800           | 1.0034 |

\*\*\*\*\* - no data



Flight 28 Test point 35

Sweep, deg = 25.4 Mach = 0.75 hp, ft = 25100. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 308.7 Rrho = 2689000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7317                                 | 0.1902                                  | 0.0798                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.2527 |
| 0.0500         | *****  | 0.0700           | 0.4198 |
| 0.1100         | *****  | 0.1200           | 0.5559 |
| 0.1700         | *****  | 0.1800           | 0.6351 |
| 0.2200         | *****  | 0.2100           | 0.6819 |
| 0.2700         | *****  | 0.2700           | 0.7463 |
| 0.3200         | *****  | 0.3100           | 0.7996 |
| 0.3600         | *****  | 0.3700           | 0.8506 |
| 0.4100         | *****  | 0.4200           | 0.8932 |
| 0.5100         | *****  | 0.5300           | 0.9715 |
| 0.7200         | *****  | 0.7300           | 0.9998 |
| 0.9100         | *****  | 0.9400           | 1.0030 |
| 1.1100         | *****  | 1.1500           | 0.9975 |
| 1.3000         | *****  | 1.3500           | 0.9960 |
| 1.5300         | *****  | 1.5500           | 1.0001 |
| 1.7400         | *****  | 1.7500           | 0.9997 |
| 1.9400         | *****  | 1.9500           | 1.0035 |
| 2.1400         | *****  | 2.1600           | 0.9987 |
| 2.3500         | *****  | 2.3700           | 1.0007 |
| 2.5500         | *****  | 2.5800           | 1.0011 |

\*\*\*\*\* - no data

Flight 28 Test point 36

Sweep, deg = 30.4 Mach = 0.75 hp, ft = 25000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 310.5 Rrho = 2701000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5623                                 | 0.1541                                  | 0.0730                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5232 |
| 0.0500         | *****  | 0.0700           | 0.5715 |
| 0.1100         | *****  | 0.1200           | 0.6382 |
| 0.1700         | *****  | 0.1800           | 0.6947 |
| 0.2200         | *****  | 0.2100           | 0.7288 |
| 0.2700         | *****  | 0.2700           | 0.7844 |
| 0.3200         | *****  | 0.3100           | 0.8350 |
| 0.3600         | *****  | 0.3700           | 0.8718 |
| 0.4100         | *****  | 0.4200           | 0.9171 |
| 0.5100         | *****  | 0.5300           | 0.9826 |
| 0.7200         | *****  | 0.7300           | 0.9996 |
| 0.9100         | *****  | 0.9400           | 1.0030 |
| 1.1100         | *****  | 1.1500           | 0.9972 |
| 1.3000         | *****  | 1.3500           | 0.9989 |
| 1.5300         | *****  | 1.5500           | 1.0032 |
| 1.7400         | *****  | 1.7500           | 1.0005 |
| 1.9400         | *****  | 1.9500           | 1.0066 |
| 2.1400         | *****  | 2.1600           | 1.0029 |
| 2.3500         | *****  | 2.3700           | 1.0036 |
| 2.5500         | *****  | 2.5800           | 1.0019 |

\*\*\*\*\* - no data

Flight 28 Test point 37

Sweep, deg = 30.4 Mach = 0.75 hp, ft = 24900. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 308.4 Rrho = 2695000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5695                        | 0.1530                         | 0.0726                     | P 1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5232 |
| 0.0500         | *****  | 0.0700           | 0.5694 |
| 0.1100         | *****  | 0.1200           | 0.6434 |
| 0.1700         | *****  | 0.1800           | 0.6952 |
| 0.2200         | *****  | 0.2100           | 0.7346 |
| 0.2700         | *****  | 0.2700           | 0.7839 |
| 0.3200         | *****  | 0.3100           | 0.8377 |
| 0.3600         | *****  | 0.3700           | 0.8780 |
| 0.4100         | *****  | 0.4200           | 0.9204 |
| 0.5100         | *****  | 0.5300           | 0.9806 |
| 0.7200         | *****  | 0.7300           | 0.9998 |
| 0.9100         | *****  | 0.9400           | 1.0051 |
| 1.1100         | *****  | 1.1500           | 0.9974 |
| 1.3000         | *****  | 1.3500           | 0.9983 |
| 1.5300         | *****  | 1.5500           | 1.0029 |
| 1.7400         | *****  | 1.7500           | 1.0030 |
| 1.9400         | *****  | 1.9500           | 1.0063 |
| 2.1400         | *****  | 2.1600           | 1.0007 |
| 2.3500         | *****  | 2.3700           | 1.0036 |
| 2.5500         | *****  | 2.5800           | 1.0023 |

\*\*\*\*\* - no data

Flight 28 Test point 38

Sweep, deg = 30.4 Mach = 0.75 hp, ft = 24700. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 314.1 Rrho = 2727000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5629                                 | 0.1535                                  | 0.0730                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5236 |
| 0.0500         | *****  | 0.0700           | 0.5665 |
| 0.1100         | *****  | 0.1200           | 0.6395 |
| 0.1700         | *****  | 0.1800           | 0.6927 |
| 0.2200         | *****  | 0.2100           | 0.7339 |
| 0.2700         | *****  | 0.2700           | 0.7900 |
| 0.3200         | *****  | 0.3100           | 0.8309 |
| 0.3600         | *****  | 0.3700           | 0.8746 |
| 0.4100         | *****  | 0.4200           | 0.9169 |
| 0.5100         | *****  | 0.5300           | 0.9823 |
| 0.7200         | *****  | 0.7300           | 1.0042 |
| 0.9100         | *****  | 0.9400           | 1.0039 |
| 1.1100         | *****  | 1.1500           | 0.9981 |
| 1.3000         | *****  | 1.3500           | 0.9965 |
| 1.5300         | *****  | 1.5500           | 1.0025 |
| 1.7400         | *****  | 1.7500           | 1.0024 |
| 1.9400         | *****  | 1.9500           | 1.0040 |
| 2.1400         | *****  | 2.1600           | 1.0027 |
| 2.3500         | *****  | 2.3700           | 1.0022 |
| 2.5500         | *****  | 2.5800           | 1.0012 |

\*\*\*\*\* - no data

Flight 28 Test point 39

Sweep, deg = 30.1 Mach = 0.75 hp, ft = 25000. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 312.6 Rrho = 2713000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5825                                 | 0.1663                                  | 0.0774                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4780 |
| 0.0500         | *****  | 0.0700           | 0.5531 |
| 0.1100         | *****  | 0.1200           | 0.6113 |
| 0.1700         | *****  | 0.1800           | 0.6739 |
| 0.2200         | *****  | 0.2100           | 0.7089 |
| 0.2700         | *****  | 0.2700           | 0.7632 |
| 0.3200         | *****  | 0.3100           | 0.8141 |
| 0.3600         | *****  | 0.3700           | 0.8625 |
| 0.4100         | *****  | 0.4200           | 0.9008 |
| 0.5100         | *****  | 0.5300           | 0.9703 |
| 0.7200         | *****  | 0.7300           | 1.0032 |
| 0.9100         | *****  | 0.9400           | 1.0035 |
| 1.1100         | *****  | 1.1500           | 0.9955 |
| 1.3000         | *****  | 1.3500           | 0.9944 |
| 1.5300         | *****  | 1.5500           | 1.0012 |
| 1.7400         | *****  | 1.7500           | 0.9993 |
| 1.9400         | *****  | 1.9500           | 1.0002 |
| 2.1400         | *****  | 2.1600           | 1.0007 |
| 2.3500         | *****  | 2.3700           | 1.0020 |
| 2.5500         | *****  | 2.5800           | 1.0002 |

\*\*\*\*\* - no data

Flight 28 Test point 40

Sweep, deg = 35.4 Mach = 0.75 h<sub>0</sub>, ft = 25000. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = 0.0 Q<sub>0</sub>, lb/ft<sup>2</sup> = 311.7 R<sub>0</sub>ρ<sub>0</sub> = 2708000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7317                                 | 0.1580                                  | 0.0785                              | 0.1 x/c                     |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.5658             |
| 0.0500         | *****              | 0.0700           | 0.5994             |
| 0.1100         | *****              | 0.1200           | 0.6508             |
| 0.1700         | *****              | 0.1800           | 0.6959             |
| 0.2200         | *****              | 0.2100           | 0.7302             |
| 0.2700         | *****              | 0.2700           | 0.7858             |
| 0.3200         | *****              | 0.3100           | 0.8288             |
| 0.3600         | *****              | 0.3700           | 0.8664             |
| 0.4100         | *****              | 0.4200           | 0.8951             |
| 0.5100         | *****              | 0.5300           | 0.9646             |
| 0.7200         | *****              | 0.7300           | 0.9997             |
| 0.9100         | *****              | 0.9400           | 1.0005             |
| 1.1100         | *****              | 1.1500           | 0.9973             |
| 1.3000         | *****              | 1.3500           | 0.9935             |
| 1.5300         | *****              | 1.5500           | 1.0033             |
| 1.7400         | *****              | 1.7500           | 1.0008             |
| 1.9400         | *****              | 1.9500           | 1.0041             |
| 2.1400         | *****              | 2.1600           | 0.9975             |
| 2.3500         | *****              | 2.3700           | 1.0011             |
| 2.5500         | *****              | 2.5800           | 1.0022             |

\*\*\*\*\* - no data

Flight 20 Test point 41

Sweep, deg = 35.4 Mach = 0.75 hp, ft = 24900. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 313.4 Rrho = 2717000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7202                                 | 0.1589                                  | 0.0792                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5638 |
| 0.0500         | *****  | 0.0700           | 0.5915 |
| 0.1100         | *****  | 0.1200           | 0.6501 |
| 0.1700         | *****  | 0.1800           | 0.7008 |
| 0.2200         | *****  | 0.2100           | 0.7343 |
| 0.2700         | *****  | 0.2700           | 0.7862 |
| 0.3200         | *****  | 0.3100           | 0.8257 |
| 0.3600         | *****  | 0.3700           | 0.8622 |
| 0.4100         | *****  | 0.4200           | 0.8975 |
| 0.5100         | *****  | 0.5300           | 0.9582 |
| 0.7200         | *****  | 0.7300           | 1.0019 |
| 0.9100         | *****  | 0.9400           | 1.0029 |
| 1.1100         | *****  | 1.1500           | 0.9970 |
| 1.3000         | *****  | 1.3500           | 0.9955 |
| 1.5300         | *****  | 1.5500           | 1.0015 |
| 1.7400         | *****  | 1.7500           | 0.9987 |
| 1.9400         | *****  | 1.9500           | 1.0014 |
| 2.1400         | *****  | 2.1600           | 0.9994 |
| 2.3500         | *****  | 2.3700           | 1.0004 |
| 2.5500         | *****  | 2.5800           | 1.0014 |

\*\*\*\*\* - no data

Flight 28 Test point 42

Sweep, deg = 35.5 Mach = 0.75 hp, ft = 25600. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 300.2 Rrho = 2635000.

|                       |                |                |                |            |
|-----------------------|----------------|----------------|----------------|------------|
|                       | Boundary layer | Displacement   | Momentum       | Transition |
|                       | height, in.    | thickness, in. | thickness, in. | strip      |
| Middle station rake   | *****          | *****          | *****          | none       |
| Outboard station rake | 0.5903         | 0.1480         | 0.0729         | 0.1 x/c    |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5712 |
| 0.0500         | *****  | 0.0700           | 0.6038 |
| 0.1100         | *****  | 0.1200           | 0.6639 |
| 0.1700         | *****  | 0.1800           | 0.7157 |
| 0.2200         | *****  | 0.2100           | 0.7504 |
| 0.2700         | *****  | 0.2700           | 0.7992 |
| 0.3200         | *****  | 0.3100           | 0.8386 |
| 0.3600         | *****  | 0.3700           | 0.8773 |
| 0.4100         | *****  | 0.4200           | 0.9106 |
| 0.5100         | *****  | 0.5300           | 0.9713 |
| 0.7200         | *****  | 0.7300           | 1.0042 |
| 0.9100         | *****  | 0.9400           | 1.0061 |
| 1.1100         | *****  | 1.1500           | 1.0013 |
| 1.3000         | *****  | 1.3500           | 0.9983 |
| 1.5300         | *****  | 1.5500           | 1.0030 |
| 1.7400         | *****  | 1.7500           | 1.0022 |
| 1.9400         | *****  | 1.9500           | 1.0057 |
| 2.1400         | *****  | 2.1600           | 1.0027 |
| 2.3500         | *****  | 2.3700           | 1.0024 |
| 2.5500         | *****  | 2.5800           | 1.0027 |

\*\*\*\*\* - no data



Flight 28 Test point 43

Sweep, deg = 35.6 Mach = 0.76 hp, ft = 24800. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 316.6 Rrho = 2737000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | *****                      | *****                       | *****                   | none             |
| Outboard station rake | 0.7270                     | 0.1607                      | 0.0799                  | 0.1 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.5653             |
| 0.0500         | *****              | 0.0700           | 0.5900             |
| 0.1100         | *****              | 0.1200           | 0.6485             |
| 0.1700         | *****              | 0.1800           | 0.6966             |
| 0.2200         | *****              | 0.2100           | 0.7344             |
| 0.2700         | *****              | 0.2700           | 0.7808             |
| 0.3200         | *****              | 0.3100           | 0.8220             |
| 0.3600         | *****              | 0.3700           | 0.8566             |
| 0.4100         | *****              | 0.4200           | 0.8957             |
| 0.5100         | *****              | 0.5300           | 0.9587             |
| 0.7200         | *****              | 0.7300           | 1.0006             |
| 0.9100         | *****              | 0.9400           | 1.0027             |
| 1.1100         | *****              | 1.1500           | 0.9983             |
| 1.3000         | *****              | 1.3500           | 0.9938             |
| 1.5300         | *****              | 1.5500           | 0.9999             |
| 1.7400         | *****              | 1.7500           | 1*****             |
| 1.9400         | *****              | 1.9500           | 1.0033             |
| 2.1400         | *****              | 2.1600           | 1.0002             |
| 2.3500         | *****              | 2.3700           | 1.0013             |
| 2.5500         | *****              | 2.5800           | 0.9999             |

\*\*\*\*\* - no data

Flight 29 Test point 1

Sweep, deg = 23.5 Mach = 0.60 hp, ft = 10000. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 367.2 Rrho = 3545000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.4944                        | 0.1230                         | 0.0613                     | 0.1 x/c             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.5224             |
| 0.0500         | *****              | 0.0700           | 0.5971             |
| 0.1100         | *****              | 0.1200           | 0.6853             |
| 0.1700         | *****              | 0.1800           | 0.7522             |
| 0.2200         | *****              | 0.2100           | 0.7928             |
| 0.2700         | *****              | 0.2700           | 0.8429             |
| 0.3200         | *****              | 0.3100           | 0.8858             |
| 0.3600         | *****              | 0.3700           | 0.9235             |
| 0.4100         | *****              | 0.4200           | 0.9562             |
| 0.5100         | *****              | 0.5300           | 0.9987             |
| 0.7200         | *****              | 0.7300           | 1.0052             |
| 0.9100         | *****              | 0.9400           | 1.0057             |
| 1.1100         | *****              | 1.1500           | 1.0010             |
| 1.3000         | *****              | 1.3500           | 1.0005             |
| 1.5300         | *****              | 1.5500           | 1.0050             |
| 1.7400         | *****              | 1.7500           | 1.0049             |
| 1.9400         | *****              | 1.9500           | 1.0065             |
| 2.1400         | *****              | 2.1600           | 1.0048             |
| 2.3500         | *****              | 2.3700           | 1.0047             |
| 2.5500         | *****              | 2.5800           | 1.0069             |

\*\*\*\*\* - no data

Flight 29 Test point 2

Sweep, deg = 23.5 Mach = 0.60 hp, ft = 10100. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 368.0 Rrho = 3543000.

|                       |                               |                                |                            |                     |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.4890                        | 0.1175                         | 0.0593                     | 0.1 x/c             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.5471             |
| 0.0500         | *****              | 0.0700           | 0.6185             |
| 0.1100         | *****              | 0.1200           | 0.7010             |
| 0.1700         | *****              | 0.1800           | 0.7617             |
| 0.2200         | *****              | 0.2100           | 0.7997             |
| 0.2700         | *****              | 0.2700           | 0.8501             |
| 0.3200         | *****              | 0.3100           | 0.8927             |
| 0.3600         | *****              | 0.3700           | 0.9305             |
| 0.4100         | *****              | 0.4200           | 0.9615             |
| 0.5100         | *****              | 0.5300           | 0.9999             |
| 0.7200         | *****              | 0.7300           | 1.0044             |
| 0.9100         | *****              | 0.9400           | 1.0058             |
| 1.1100         | *****              | 1.1500           | 1.0025             |
| 1.3000         | *****              | 1.3500           | 0.9992             |
| 1.5300         | *****              | 1.5500           | 1.0042             |
| 1.7400         | *****              | 1.7500           | 1.0033             |
| 1.9400         | *****              | 1.9500           | 1.0056             |
| 2.1400         | *****              | 2.1600           | 1.0034             |
| 2.3500         | *****              | 2.3700           | 1.0045             |
| 2.5500         | *****              | 2.5800           | 1.0058             |

\*\*\*\*\* - no data

Flight 29 Test point 3

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 498.5 Rrho = 4180000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5652                                 | 0.1419                                  | 0.0690                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5058 |
| 0.0500         | *****  | 0.0700           | 0.5810 |
| 0.1100         | *****  | 0.1200           | 0.6613 |
| 0.1700         | *****  | 0.1800           | 0.7220 |
| 0.2200         | *****  | 0.2100           | 0.7640 |
| 0.2700         | *****  | 0.2700           | 0.8129 |
| 0.3200         | *****  | 0.3100           | 0.8557 |
| 0.3600         | *****  | 0.3700           | 0.8941 |
| 0.4100         | *****  | 0.4200           | 0.9296 |
| 0.5100         | *****  | 0.5300           | 0.9843 |
| 0.7200         | *****  | 0.7300           | 1.0028 |
| 0.9100         | *****  | 0.9400           | 1.0030 |
| 1.1100         | *****  | 1.1500           | 1.0004 |
| 1.3000         | *****  | 1.3500           | 0.9991 |
| 1.5300         | *****  | 1.5500           | 1.0023 |
| 1.7400         | *****  | 1.7500           | 1.0007 |
| 1.9400         | *****  | 1.9500           | 1.0021 |
| 2.1400         | *****  | 2.1600           | 1.0009 |
| 2.3500         | *****  | 2.3700           | 1.0025 |
| 2.5500         | *****  | 2.5800           | 1.0018 |

\*\*\*\*\* - no data

Flight 29 Test point 4

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 10300. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 492.9 Rrho = 4133000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5750                                 | 0.1483                                  | 0.0712                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4782 |
| 0.0500         | *****  | 0.0700           | 0.5613 |
| 0.1100         | *****  | 0.1200           | 0.6459 |
| 0.1700         | *****  | 0.1800           | 0.7133 |
| 0.2200         | *****  | 0.2100           | 0.7559 |
| 0.2700         | *****  | 0.2700           | 0.8067 |
| 0.3200         | *****  | 0.3100           | 0.8481 |
| 0.3600         | *****  | 0.3700           | 0.8873 |
| 0.4100         | *****  | 0.4200           | 0.9219 |
| 0.5100         | *****  | 0.5300           | 0.9791 |
| 0.7200         | *****  | 0.7300           | 1.0027 |
| 0.9100         | *****  | 0.9400           | 1.0035 |
| 1.1100         | *****  | 1.1500           | 1.0002 |
| 1.3000         | *****  | 1.3500           | 0.9988 |
| 1.5300         | *****  | 1.5500           | 1.0024 |
| 1.7400         | *****  | 1.7500           | 1.0023 |
| 1.9400         | *****  | 1.9500           | 1.0030 |
| 2.1400         | *****  | 2.1600           | 1.0024 |
| 2.3500         | *****  | 2.3700           | 1.0026 |
| 2.5500         | *****  | 2.5800           | 1.0031 |

\*\*\*\*\* - no data

Flight 29 Test point 5

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 10400, Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 492.1 Rrho = 4111000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5705                                 | 0.1457                                  | 0.0698                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4822 |
| 0.0500         | *****  | 0.0700           | 0.5663 |
| 0.1100         | *****  | 0.1200           | 0.6505 |
| 0.1700         | *****  | 0.1800           | 0.7147 |
| 0.2200         | *****  | 0.2100           | 0.7571 |
| 0.2700         | *****  | 0.2700           | 0.8093 |
| 0.3200         | *****  | 0.3100           | 0.8514 |
| 0.3600         | *****  | 0.3700           | 0.8934 |
| 0.4100         | *****  | 0.4200           | 0.9291 |
| 0.5100         | *****  | 0.5300           | 0.9825 |
| 0.7200         | *****  | 0.7300           | 1.0020 |
| 0.9100         | *****  | 0.9400           | 1.0030 |
| 1.1100         | *****  | 1.1500           | 1.0002 |
| 1.3000         | *****  | 1.3500           | 0.9998 |
| 1.5300         | *****  | 1.5500           | 1.0021 |
| 1.7400         | *****  | 1.7500           | 1.0011 |
| 1.9400         | *****  | 1.9500           | 1.0025 |
| 2.1400         | *****  | 2.1600           | 1.0025 |
| 2.3500         | *****  | 2.3700           | 1.0021 |
| 2.5500         | *****  | 2.5800           | 1.0021 |

\*\*\*\*\* - no data

Flight 29 Test point 6

Sweep, deg = 20.1 Mach = 0.70 hp, ft = 10400. Angle of attack, deg = -0.1  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 491.6 Rrho = 4113000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5035                                 | 0.1663                                  | 0.0658                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.2573 |
| 0.0500         | *****  | 0.0700           | 0.3455 |
| 0.1100         | *****  | 0.1200           | 0.5645 |
| 0.1700         | *****  | 0.1800           | 0.6749 |
| 0.2200         | *****  | 0.2100           | 0.7321 |
| 0.2700         | *****  | 0.2700           | 0.8001 |
| 0.3200         | *****  | 0.3100           | 0.8526 |
| 0.3600         | *****  | 0.3700           | 0.9005 |
| 0.4100         | *****  | 0.4200           | 0.9402 |
| 0.5100         | *****  | 0.5300           | 0.9913 |
| 0.7200         | *****  | 0.7300           | 1.0013 |
| 0.9100         | *****  | 0.9400           | 1.0023 |
| 1.1100         | *****  | 1.1500           | 0.9993 |
| 1.3000         | *****  | 1.3500           | 0.9983 |
| 1.5300         | *****  | 1.5500           | 1.0012 |
| 1.7400         | *****  | 1.7500           | 1.0015 |
| 1.9400         | *****  | 1.9500           | 1.0020 |
| 2.1400         | *****  | 2.1600           | 1.0003 |
| 2.3500         | *****  | 2.3700           | 1.0010 |
| 2.5500         | *****  | 2.5800           | 1.0014 |

\*\*\*\*\* - no data

Flight 29 Test point 7

Sweep, deg = 20.1 Mach = 0.69 hp, ft = 10400. Angle of attack, deg = -0.1  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 481.5 Rrho = 4074000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5047                                 | 0.1647                                  | 0.0654                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.2514 |
| 0.0500         | *****  | 0.0700           | 0.3486 |
| 0.1100         | *****  | 0.1200           | 0.5699 |
| 0.1700         | *****  | 0.1800           | 0.6795 |
| 0.2200         | *****  | 0.2100           | 0.7380 |
| 0.2700         | *****  | 0.2700           | 0.8047 |
| 0.3200         | *****  | 0.3100           | 0.8553 |
| 0.3600         | *****  | 0.3700           | 0.9023 |
| 0.4100         | *****  | 0.4200           | 0.9410 |
| 0.5100         | *****  | 0.5300           | 0.9915 |
| 0.7200         | *****  | 0.7300           | 1.0008 |
| 0.9100         | *****  | 0.9400           | 1.0017 |
| 1.1100         | *****  | 1.1500           | 0.9989 |
| 1.3000         | *****  | 1.3500           | 0.9982 |
| 1.5300         | *****  | 1.5500           | 1.0016 |
| 1.7400         | *****  | 1.7500           | 1.0012 |
| 1.9400         | *****  | 1.9500           | 1.0018 |
| 2.1400         | *****  | 2.1600           | 1.0006 |
| 2.3500         | *****  | 2.3700           | 1.0015 |
| 2.5500         | *****  | 2.5800           | 1.0021 |

\*\*\*\*\* - no data



Flight 29 Test point 8

Sweep, deg = 20.1 Mach = 0.71 hp, ft = 10200. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 504.2 R<sub>npu</sub> = 4187000.

|                       |                               |                                |                            |                     |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5534                        | 0.1763                         | 0.0703                     | 0.1 x/c             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.3573             |
| 0.0500         | *****              | 0.0700           | 0.2534             |
| 0.1100         | *****              | 0.1200           | 0.5269             |
| 0.1700         | *****              | 0.1800           | 0.6490             |
| 0.2200         | *****              | 0.2100           | 0.7114             |
| 0.2700         | *****              | 0.2700           | 0.7824             |
| 0.3200         | *****              | 0.3100           | 0.8351             |
| 0.3600         | *****              | 0.3700           | 0.8859             |
| 0.4100         | *****              | 0.4200           | 0.9284             |
| 0.5100         | *****              | 0.5300           | 0.9884             |
| 0.7200         | *****              | 0.7300           | 1.0011             |
| 0.9100         | *****              | 0.9400           | 1.0021             |
| 1.1100         | *****              | 1.1500           | 0.9999             |
| 1.3000         | *****              | 1.3500           | 0.9985             |
| 1.5300         | *****              | 1.5500           | 1.0012             |
| 1.7400         | *****              | 1.7500           | 1.0018             |
| 1.9400         | *****              | 1.9500           | 1.0017             |
| 2.1400         | *****              | 2.1600           | 1.0024             |
| 2.3500         | *****              | 2.3700           | 1.0014             |
| 2.5500         | *****              | 2.5800           | 1.0016             |

\*\*\*\*\* - no data

Flight 29 Test point 9

Sweep, deg = 20.1 Mach = 0.71 hp, ft = 10800. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 490.2 R<sub>pu</sub> = 4082000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5636                                 | 0.1927                                  | 0.0741                              | 0.1 x/c                     |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.7114             |
| 0.0500         | *****              | 0.0700           | 0.5349             |
| 0.1100         | *****              | 0.1200           | 0.1774             |
| 0.1700         | *****              | 0.1800           | 0.5039             |
| 0.2200         | *****              | 0.2100           | 0.6205             |
| 0.2700         | *****              | 0.2700           | 0.7230             |
| 0.3200         | *****              | 0.3100           | 0.7971             |
| 0.3600         | *****              | 0.3700           | 0.8571             |
| 0.4100         | *****              | 0.4200           | 0.9068             |
| 0.5100         | *****              | 0.5300           | 0.9798             |
| 0.7200         | *****              | 0.7300           | 1.0008             |
| 0.9100         | *****              | 0.9400           | 1.0026             |
| 1.1100         | *****              | 1.1500           | 1.0005             |
| 1.3000         | *****              | 1.3500           | 1.0003             |
| 1.5300         | *****              | 1.5500           | 1.0026             |
| 1.7400         | *****              | 1.7500           | 1.0018             |
| 1.9400         | *****              | 1.9500           | 1.0025             |
| 2.1400         | *****              | 2.1600           | 1.0020             |
| 2.3500         | *****              | 2.3700           | 1.0032             |
| 2.5500         | *****              | 2.5800           | 1.0039             |

\*\*\*\*\* - no data

Flight 29 Test point 10

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 20100. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 334.2 Rrho = 2983000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5525                                 | 0.1532                                  | 0.0700                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3991 |
| 0.0500         | *****  | 0.0700           | 0.5160 |
| 0.1100         | *****  | 0.1200           | 0.6247 |
| 0.1700         | *****  | 0.1800           | 0.6996 |
| 0.2200         | *****  | 0.2100           | 0.7415 |
| 0.2700         | *****  | 0.2700           | 0.8005 |
| 0.3200         | *****  | 0.3100           | 0.8478 |
| 0.3600         | *****  | 0.3700           | 0.8922 |
| 0.4100         | *****  | 0.4200           | 0.9315 |
| 0.5100         | *****  | 0.5300           | 0.9893 |
| 0.7200         | *****  | 0.7300           | 1.0010 |
| 0.9100         | *****  | 0.9400           | 1.0030 |
| 1.1100         | *****  | 1.1500           | 0.9991 |
| 1.3000         | *****  | 1.3500           | 0.9976 |
| 1.5300         | *****  | 1.5500           | 1.0023 |
| 1.7400         | *****  | 1.7500           | 1.0009 |
| 1.9400         | *****  | 1.9500           | 1.0026 |
| 2.1400         | *****  | 2.1600           | 1.0006 |
| 2.3500         | *****  | 2.3700           | 1.0013 |
| 2.5500         | *****  | 2.5800           | 1.0024 |

\*\*\*\*\* - no data

Flight 29 Test point 11

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 19900. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 334.7 Rrho = 2986000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5555                                 | 0.1592                                  | 0.0714                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3657 |
| 0.0500         | *****  | 0.0700           | 0.4958 |
| 0.1100         | *****  | 0.1200           | 0.6093 |
| 0.1700         | *****  | 0.1800           | 0.6875 |
| 0.2200         | *****  | 0.2100           | 0.7333 |
| 0.2700         | *****  | 0.2700           | 0.7929 |
| 0.3200         | *****  | 0.3100           | 0.8423 |
| 0.3600         | *****  | 0.3700           | 0.8855 |
| 0.4100         | *****  | 0.4200           | 0.9242 |
| 0.5100         | *****  | 0.5300           | 0.9868 |
| 0.7200         | *****  | 0.7300           | 1.0006 |
| 0.9100         | *****  | 0.9400           | 1.0039 |
| 1.1100         | *****  | 1.1500           | 0.9986 |
| 1.3000         | *****  | 1.3500           | 0.9978 |
| 1.5300         | *****  | 1.5500           | 1.0018 |
| 1.7400         | *****  | 1.7500           | 1.0015 |
| 1.9400         | *****  | 1.9500           | 1.0040 |
| 2.1400         | *****  | 2.1600           | 1.0023 |
| 2.3500         | *****  | 2.3700           | 1.0015 |
| 2.5500         | *****  | 2.5800           | 1.0012 |

\*\*\*\*\* - no data

Flight 29 Test point 12

Sweep, deg = 30.1 Mach = 0.71 hp, ft = 20000. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 340.0 Rrho = 3013000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5829                        | 0.1457                         | 0.0723                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5640 |
| 0.0500         | *****  | 0.0700           | 0.6009 |
| 0.1100         | *****  | 0.1200           | 0.6628 |
| 0.1700         | *****  | 0.1800           | 0.7140 |
| 0.2200         | *****  | 0.2100           | 0.7522 |
| 0.2700         | *****  | 0.2700           | 0.8020 |
| 0.3200         | *****  | 0.3100           | 0.8440 |
| 0.3600         | *****  | 0.3700           | 0.8788 |
| 0.4100         | *****  | 0.4200           | 0.9140 |
| 0.5100         | *****  | 0.5300           | 0.9742 |
| 0.7200         | *****  | 0.7300           | 1.0039 |
| 0.9100         | *****  | 0.9400           | 1.0042 |
| 1.1100         | *****  | 1.1500           | 1.0007 |
| 1.3000         | *****  | 1.3500           | 0.9976 |
| 1.5300         | *****  | 1.5500           | 1.0039 |
| 1.7400         | *****  | 1.7500           | 1.0019 |
| 1.9400         | *****  | 1.9500           | 1.0042 |
| 2.1400         | *****  | 2.1600           | 1.0029 |
| 2.3500         | *****  | 2.3700           | 1.0030 |
| 2.5500         | *****  | 2.5800           | 1.0036 |

\*\*\*\*\* - no data

Flight 29 Test point 13

Sweep, deg = 30.2 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 331.5 Rnpu = 2969000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5517                                 | 0.1316                                  | 0.0658                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5817 |
| 0.0500         | *****  | 0.0700           | 0.6185 |
| 0.1100         | *****  | 0.1200           | 0.6821 |
| 0.1700         | *****  | 0.1800           | 0.7365 |
| 0.2200         | *****  | 0.2100           | 0.7747 |
| 0.2700         | *****  | 0.2700           | 0.8234 |
| 0.3200         | *****  | 0.3100           | 0.8672 |
| 0.3600         | *****  | 0.3700           | 0.9033 |
| 0.4100         | *****  | 0.4200           | 0.9380 |
| 0.5100         | *****  | 0.5300           | 0.9885 |
| 0.7200         | *****  | 0.7300           | 1.0022 |
| 0.9100         | *****  | 0.9400           | 1.0030 |
| 1.1100         | *****  | 1.1500           | 0.9991 |
| 1.3000         | *****  | 1.3500           | 0.9968 |
| 1.5300         | *****  | 1.5500           | 1.0020 |
| 1.7400         | *****  | 1.7500           | 1.0015 |
| 1.9400         | *****  | 1.9500           | 1.0027 |
| 2.1400         | *****  | 2.1600           | 1.0014 |
| 2.3500         | *****  | 2.3700           | 1.0009 |
| 2.5500         | *****  | 2.5800           | 1.0021 |

\*\*\*\*\* - no data

Flight 29 Test point 14

Sweep, deg = 30.2 Mach = 0.71 hp, ft = 20100. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 343.4 Rrho = 3030000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5665                        | 0.1439                         | 0.0704                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5521 |
| 0.0500         | *****  | 0.0700           | 0.5945 |
| 0.1100         | *****  | 0.1200           | 0.6621 |
| 0.1700         | *****  | 0.1800           | 0.7106 |
| 0.2200         | *****  | 0.2100           | 0.7500 |
| 0.2700         | *****  | 0.2700           | 0.8033 |
| 0.3200         | *****  | 0.3100           | 0.8461 |
| 0.3600         | *****  | 0.3700           | 0.8877 |
| 0.4100         | *****  | 0.4200           | 0.9250 |
| 0.5100         | *****  | 0.5300           | 0.9828 |
| 0.7200         | *****  | 0.7300           | 1.0019 |
| 0.9100         | *****  | 0.9400           | 1.0040 |
| 1.1100         | *****  | 1.1500           | 0.9989 |
| 1.3000         | *****  | 1.3500           | 0.9984 |
| 1.5300         | *****  | 1.5500           | 1.0019 |
| 1.7400         | *****  | 1.7500           | 1.0037 |
| 1.9400         | *****  | 1.9500           | 1.0030 |
| 2.1400         | *****  | 2.1600           | 1.0007 |
| 2.3500         | *****  | 2.3700           | 1.0017 |
| 2.5500         | *****  | 2.5800           | 1.0030 |

\*\*\*\*\* - no data

Flight 29 Test point 15

Sweep, deg = 20.1 Mach = 0.80 hp, ft = 20100. Angle of attack, deg = -0.2  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 435.1 R<sub>npu</sub> = 3449000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none<br>0.1 x/c |
|-----------------------|--|---|-------------------------------------|--|
| Middle station rake   |  |   |                                     |  |
| Outboard station rake | 0.7269                                 | 0.2520                                  | 0.0874                              |  |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.5667             |
| 0.0500         | *****              | 0.0700           | 0.5201             |
| 0.1100         | *****              | 0.1200           | 0.3122             |
| 0.1700         | *****              | 0.1800           | 0.2537             |
| 0.2200         | *****              | 0.2100           | 0.4350             |
| 0.2700         | *****              | 0.2700           | 0.5787             |
| 0.3200         | *****              | 0.3100           | 0.6799             |
| 0.3600         | *****              | 0.3700           | 0.7715             |
| 0.4100         | *****              | 0.4200           | 0.8454             |
| 0.5100         | *****              | 0.5300           | 0.9560             |
| 0.7200         | *****              | 0.7300           | 1.0006             |
| 0.9100         | *****              | 0.9400           | 1.0014             |
| 1.1100         | *****              | 1.1500           | 0.9998             |
| 1.3000         | *****              | 1.3500           | 0.9987             |
| 1.5300         | *****              | 1.5500           | 1.0014             |
| 1.7400         | *****              | 1.7500           | 1.0013             |
| 1.9400         | *****              | 1.9500           | 1.0017             |
| 2.1400         | *****              | 2.1600           | 1.0004             |
| 2.3500         | *****              | 2.3700           | 0.9976             |
| 2.5500         | *****              | 2.5800           | 0.9970             |

\*\*\*\*\* - no data



Flight 29 Test point 16

Sweep, deg = 20.1 Mach = 0.81 hp, ft = 20000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 443.0 Rrho = 3488000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7268                        | 0.2688                         | 0.0942                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.6541 |
| 0.0500         | *****  | 0.0700           | 0.6424 |
| 0.1100         | *****  | 0.1200           | 0.4997 |
| 0.1700         | *****  | 0.1800           | 0.3280 |
| 0.2200         | *****  | 0.2100           | 0.1885 |
| 0.2700         | *****  | 0.2700           | 0.4540 |
| 0.3200         | *****  | 0.3100           | 0.5890 |
| 0.3600         | *****  | 0.3700           | 0.6974 |
| 0.4100         | *****  | 0.4200           | 0.7847 |
| 0.5100         | *****  | 0.5300           | 0.9282 |
| 0.7200         | *****  | 0.7300           | 1.0010 |
| 0.9100         | *****  | 0.9400           | 1.0015 |
| 1.1100         | *****  | 1.1500           | 1.0000 |
| 1.3000         | *****  | 1.3500           | 0.9983 |
| 1.5300         | *****  | 1.5500           | 1.0010 |
| 1.7400         | *****  | 1.7500           | 1.0009 |
| 1.9400         | *****  | 1.9500           | 1.0015 |
| 2.1400         | *****  | 2.1600           | 1.0005 |
| 2.3500         | *****  | 2.3700           | 0.9981 |
| 2.5500         | *****  | 2.5800           | 0.9972 |

\*\*\*\*\* - no data

Flight 29 Test point 17

Sweep, deg = 20.1 Mach = 0.81 hp, ft = 19900. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -5.2 QBAR, lb/ft<sup>2</sup> = 444.5 Rnpu = 3497000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7278                                 | 0.2717                                  | 0.0946                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.6515 |
| 0.0500         | *****  | 0.0700           | 0.6403 |
| 0.1100         | *****  | 0.1200           | 0.4988 |
| 0.1700         | *****  | 0.1800           | 0.3233 |
| 0.2200         | *****  | 0.2100           | 0.1852 |
| 0.2700         | *****  | 0.2700           | 0.4468 |
| 0.3200         | *****  | 0.3100           | 0.5806 |
| 0.3600         | *****  | 0.3700           | 0.6922 |
| 0.4100         | *****  | 0.4200           | 0.7817 |
| 0.5100         | *****  | 0.5300           | 0.9250 |
| 0.7200         | *****  | 0.7300           | 1.0008 |
| 0.9100         | *****  | 0.9400           | 1.0014 |
| 1.1100         | *****  | 1.1500           | 1.0000 |
| 1.3000         | *****  | 1.3500           | 0.9991 |
| 1.5300         | *****  | 1.5500           | 1.0012 |
| 1.7400         | *****  | 1.7500           | 1.0011 |
| 1.9400         | *****  | 1.9500           | 1.0010 |
| 2.1400         | *****  | 2.1600           | 1.0002 |
| 2.3500         | *****  | 2.3700           | 0.9977 |
| 2.5500         | *****  | 2.5800           | 0.9975 |

\*\*\*\*\* - no data

Flight 29 Test point 18

Sweep, deg = 20.1 Mach = 0.80 hp, ft = 20600. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 427.6 Rrho = 3394000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7264                        | 0.2702                         | 0.0884                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5225 |
| 0.0500         | *****  | 0.0700           | 0.4848 |
| 0.1100         | *****  | 0.1200           | 0.2877 |
| 0.1700         | *****  | 0.1800           | 0.2086 |
| 0.2200         | *****  | 0.2100           | 0.4007 |
| 0.2700         | *****  | 0.2700           | 0.5463 |
| 0.3200         | *****  | 0.3100           | 0.6546 |
| 0.3600         | *****  | 0.3700           | 0.7475 |
| 0.4100         | *****  | 0.4200           | 0.8246 |
| 0.5100         | *****  | 0.5300           | 0.9439 |
| 0.7200         | *****  | 0.7300           | 1.0009 |
| 0.9100         | *****  | 0.9400           | 1.0029 |
| 1.1100         | *****  | 1.1500           | 1.0005 |
| 1.3000         | *****  | 1.3500           | 1.0006 |
| 1.5300         | *****  | 1.5500           | 1.0024 |
| 1.7400         | *****  | 1.7500           | 1.0015 |
| 1.9400         | *****  | 1.9500           | 1.0016 |
| 2.1400         | *****  | 2.1600           | 0.9999 |
| 2.3500         | *****  | 2.3700           | 0.9943 |
| 2.5500         | *****  | 2.5800           | 0.9952 |

\*\*\*\*\* - no data

Flight 29 Test point 19

Sweep, deg = 20.1 Mach = 0.81 hp, ft = 19700. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -5.3 QBAR, lb/ft<sup>2</sup> = 447.7 Rrho = 3520000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7279                                 | 0.2769                                  | 0.0948                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.6495 |
| 0.0500         | *****  | 0.0700           | 0.6377 |
| 0.1100         | *****  | 0.1200           | 0.4948 |
| 0.1700         | *****  | 0.1800           | 0.3327 |
| 0.2200         | *****  | 0.2100           | 0.1615 |
| 0.2700         | *****  | 0.2700           | 0.4363 |
| 0.3200         | *****  | 0.3100           | 0.5726 |
| 0.3600         | *****  | 0.3700           | 0.6856 |
| 0.4100         | *****  | 0.4200           | 0.7742 |
| 0.5100         | *****  | 0.5300           | 0.9192 |
| 0.7200         | *****  | 0.7300           | 1.0008 |
| 0.9100         | *****  | 0.9400           | 1.0020 |
| 1.1100         | *****  | 1.1500           | 1.0001 |
| 1.3000         | *****  | 1.3500           | 0.9988 |
| 1.5300         | *****  | 1.5500           | 1.0015 |
| 1.7400         | *****  | 1.7500           | 1.0009 |
| 1.9400         | *****  | 1.9500           | 1.0018 |
| 2.1400         | *****  | 2.1600           | 1.0009 |
| 2.3500         | *****  | 2.3700           | 0.9969 |
| 2.5500         | *****  | 2.5800           | 0.9963 |

\*\*\*\*\* - no data

Flight 29 Test point 20

Sweep, deg = 20.1 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 434.8 Rrho = 3456000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7257                                 | 0.2611                                  | 0.0882                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5553 |
| 0.0500         | *****  | 0.0700           | 0.5142 |
| 0.1100         | *****  | 0.1200           | 0.3162 |
| 0.1700         | *****  | 0.1800           | 0.2203 |
| 0.2200         | *****  | 0.2100           | 0.4182 |
| 0.2700         | *****  | 0.2700           | 0.5587 |
| 0.3200         | *****  | 0.3100           | 0.6637 |
| 0.3600         | *****  | 0.3700           | 0.7567 |
| 0.4100         | *****  | 0.4200           | 0.8326 |
| 0.5100         | *****  | 0.5300           | 0.9497 |
| 0.7200         | *****  | 0.7300           | 1.0010 |
| 0.9100         | *****  | 0.9400           | 1.0021 |
| 1.1100         | *****  | 1.1500           | 1.0009 |
| 1.3000         | *****  | 1.3500           | 0.9989 |
| 1.5300         | *****  | 1.5500           | 1.0018 |
| 1.7400         | *****  | 1.7500           | 1.0012 |
| 1.9400         | *****  | 1.9500           | 1.0019 |
| 2.1400         | *****  | 2.1600           | 1.0008 |
| 2.3500         | *****  | 2.3700           | 0.9957 |
| 2.5500         | *****  | 2.5800           | 0.9957 |

\*\*\*\*\* - no data

Flight 29 Test point 21

Sweep, deg = 30.1 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 353.9 Rnpu = 2898000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7242                                 | 0.2729                                  | 0.0976                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.2250 |
| 0.0500         | *****  | 0.0700           | 0.2713 |
| 0.1100         | *****  | 0.1200           | 0.3589 |
| 0.1700         | *****  | 0.1800           | 0.4258 |
| 0.2200         | *****  | 0.2100           | 0.4783 |
| 0.2700         | *****  | 0.2700           | 0.5677 |
| 0.3200         | *****  | 0.3100           | 0.6459 |
| 0.3600         | *****  | 0.3700           | 0.7223 |
| 0.4100         | *****  | 0.4200           | 0.7903 |
| 0.5100         | *****  | 0.5300           | 0.9160 |
| 0.7200         | *****  | 0.7300           | 1.0023 |
| 0.9100         | *****  | 0.9400           | 1.0030 |
| 1.1100         | *****  | 1.1500           | 1.0008 |
| 1.3000         | *****  | 1.3500           | 0.9980 |
| 1.5300         | *****  | 1.5500           | 1.0027 |
| 1.7400         | *****  | 1.7500           | 1.0018 |
| 1.9400         | *****  | 1.9500           | 1.0021 |
| 2.1400         | *****  | 2.1600           | 0.9967 |
| 2.3500         | *****  | 2.3700           | 0.9965 |
| 2.5500         | *****  | 2.5800           | 0.9961 |

\*\*\*\*\* - no data

Flight 29 Test point 22

Sweep, deg = 30.1 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 352.3 Rrho = 2889000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.8095                                 | 0.3066                                  | 0.1003                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.1981 |
| 0.0500         | *****  | 0.0700           | 0.2239 |
| 0.1100         | *****  | 0.1200           | 0.3064 |
| 0.1700         | *****  | 0.1800           | 0.3657 |
| 0.2200         | *****  | 0.2100           | 0.4163 |
| 0.2700         | *****  | 0.2700           | 0.5109 |
| 0.3200         | *****  | 0.3100           | 0.5932 |
| 0.3600         | *****  | 0.3700           | 0.6753 |
| 0.4100         | *****  | 0.4200           | 0.7503 |
| 0.5100         | *****  | 0.5300           | 0.8800 |
| 0.7200         | *****  | 0.7300           | 0.9982 |
| 0.9100         | *****  | 0.9400           | 1.0027 |
| 1.1100         | *****  | 1.1500           | 0.9997 |
| 1.3000         | *****  | 1.3500           | 0.9983 |
| 1.5300         | *****  | 1.5500           | 1.0019 |
| 1.7400         | *****  | 1.7500           | 1.0009 |
| 1.9400         | *****  | 1.9500           | 1.0020 |
| 2.1400         | *****  | 2.1600           | 1.0010 |
| 2.3500         | *****  | 2.3700           | 0.9994 |
| 2.5500         | *****  | 2.5800           | 0.9942 |

\*\*\*\*\* - no data

Flight 29 Test point 23

Sweep, deg = 34.9 Mach = 0.79 hp, ft = 23900. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 356.1 Rrho = 2946000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7259                        | 0.1703                         | 0.0823                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5345 |
| 0.0500         | *****  | 0.0700           | 0.5652 |
| 0.1100         | *****  | 0.1200           | 0.6250 |
| 0.1700         | *****  | 0.1800           | 0.6728 |
| 0.2200         | *****  | 0.2100           | 0.7102 |
| 0.2700         | *****  | 0.2700           | 0.7638 |
| 0.3200         | *****  | 0.3100           | 0.8078 |
| 0.3600         | *****  | 0.3700           | 0.8498 |
| 0.4100         | *****  | 0.4200           | 0.8903 |
| 0.5100         | *****  | 0.5300           | 0.9574 |
| 0.7200         | *****  | 0.7300           | 1.0008 |
| 0.9100         | *****  | 0.9400           | 1.0010 |
| 1.1100         | *****  | 1.1500           | 0.9986 |
| 1.3000         | *****  | 1.3500           | 0.9962 |
| 1.5300         | *****  | 1.5500           | 1.0006 |
| 1.7400         | *****  | 1.7500           | 1.0004 |
| 1.9400         | *****  | 1.9500           | 1.0016 |
| 2.1400         | *****  | 2.1600           | 0.9998 |
| 2.3500         | *****  | 2.3700           | 0.9995 |
| 2.5500         | *****  | 2.5800           | 1.0017 |

\*\*\*\*\* - no data



Flight 30 Test point 1

Sweep, deg = 20.0 Mach = 0.71 hp, ft = 10000. Angle of attack, deg = -0.2  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 511.4 Rrho = 4243000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5495                        | 0.1688                         | 0.0679                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3150 |
| 0.0500         | *****  | 0.0700           | 0.3089 |
| 0.1100         | *****  | 0.1200           | 0.5500 |
| 0.1700         | *****  | 0.1800           | 0.6668 |
| 0.2200         | *****  | 0.2100           | 0.7276 |
| 0.2700         | *****  | 0.2700           | 0.7970 |
| 0.3200         | *****  | 0.3100           | 0.8494 |
| 0.3600         | *****  | 0.3700           | 0.8980 |
| 0.4100         | *****  | 0.4200           | 0.9397 |
| 0.5100         | *****  | 0.5300           | 0.9917 |
| 0.7200         | *****  | 0.7300           | 1.0006 |
| 0.9100         | *****  | 0.9400           | 1.0016 |
| 1.1100         | *****  | 1.1500           | 0.9990 |
| 1.3000         | *****  | 1.3500           | 0.9992 |
| 1.5300         | *****  | 1.5500           | 1.0009 |
| 1.7400         | *****  | 1.7500           | 1.0011 |
| 1.9400         | *****  | 1.9500           | 1.0021 |
| 2.1400         | *****  | 2.1600           | 1.0013 |
| 2.3500         | *****  | 2.3700           | 1.0011 |
| 2.5500         | *****  | 2.5800           | 1.0014 |

\*\*\*\*\* - no data

Flight 30 Test point 2

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = -0.1  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 499.5 Rrho = 4184000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5468                        | 0.1674                         | 0.0676                     | 0.1 x/c             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.3112             |
| 0.0500         | *****              | 0.0700           | 0.3101             |
| 0.1100         | *****              | 0.1200           | 0.5535             |
| 0.1700         | *****              | 0.1800           | 0.6711             |
| 0.2200         | *****              | 0.2100           | 0.7324             |
| 0.2700         | *****              | 0.2700           | 0.7986             |
| 0.3200         | *****              | 0.3100           | 0.8536             |
| 0.3600         | *****              | 0.3700           | 0.8986             |
| 0.4100         | *****              | 0.4200           | 0.9397             |
| 0.5100         | *****              | 0.5300           | 0.9927             |
| 0.7200         | *****              | 0.7300           | 1.0005             |
| 0.9100         | *****              | 0.9400           | 1.0018             |
| 1.1100         | *****              | 1.1500           | 0.9986             |
| 1.3000         | *****              | 1.3500           | 0.9983             |
| 1.5300         | *****              | 1.5500           | 1.0015             |
| 1.7400         | *****              | 1.7500           | 1.0011             |
| 1.9400         | *****              | 1.9500           | 1.0023             |
| 2.1400         | *****              | 2.1600           | 1.0007             |
| 2.3500         | *****              | 2.3700           | 1.0016             |
| 2.5500         | *****              | 2.5800           | 1.0010             |

\*\*\*\*\* - no data

Flight 30 Test point 3

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 333.8 Rrho = 3002000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5536                        | 0.1498                         | 0.0694                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4284 |
| 0.0500         | *****  | 0.0700           | 0.5330 |
| 0.1100         | *****  | 0.1200           | 0.6297 |
| 0.1700         | *****  | 0.1800           | 0.7030 |
| 0.2200         | *****  | 0.2100           | 0.7441 |
| 0.2700         | *****  | 0.2700           | 0.8041 |
| 0.3200         | *****  | 0.3100           | 0.8528 |
| 0.3600         | *****  | 0.3700           | 0.8961 |
| 0.4100         | *****  | 0.4200           | 0.9345 |
| 0.5100         | *****  | 0.5300           | 0.9894 |
| 0.7200         | *****  | 0.7300           | 1.0017 |
| 0.9100         | *****  | 0.9400           | 1.0033 |
| 1.1100         | *****  | 1.1500           | 0.9980 |
| 1.3000         | *****  | 1.3500           | 0.9971 |
| 1.5300         | *****  | 1.5500           | 1.0013 |
| 1.7400         | *****  | 1.7500           | 1.0030 |
| 1.9400         | *****  | 1.9500           | 1.0016 |
| 2.1400         | *****  | 2.1600           | 1.0003 |
| 2.3500         | *****  | 2.3700           | 1.0010 |
| 2.5500         | *****  | 2.5800           | 1.0033 |

\*\*\*\*\* - no data

Flight 30 Test point 4

Sweep, deg = 25.4 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 333.8 Rrho = 3002000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5504                        | 0.1488                         | 0.0690                     | 0.1 x/c             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.4358             |
| 0.0500         | *****              | 0.0700           | 0.5339             |
| 0.1100         | *****              | 0.1200           | 0.6318             |
| 0.1700         | *****              | 0.1800           | 0.7010             |
| 0.2200         | *****              | 0.2100           | 0.7472             |
| 0.2700         | *****              | 0.2700           | 0.8066             |
| 0.3200         | *****              | 0.3100           | 0.8567             |
| 0.3600         | *****              | 0.3700           | 0.8978             |
| 0.4100         | *****              | 0.4200           | 0.9349             |
| 0.5100         | *****              | 0.5300           | 0.9907             |
| 0.7200         | *****              | 0.7300           | 1.0012             |
| 0.9100         | *****              | 0.9400           | 1.0035             |
| 1.1100         | *****              | 1.1500           | 0.9978             |
| 1.3000         | *****              | 1.3500           | 0.9977             |
| 1.5300         | *****              | 1.5500           | 1.0006             |
| 1.7400         | *****              | 1.7500           | 1.0014             |
| 1.9400         | *****              | 1.9500           | 1.0034             |
| 2.1400         | *****              | 2.1600           | 1.0000             |
| 2.3500         | *****              | 2.3700           | 1.0010             |
| 2.5500         | *****              | 2.5800           | 1.0029             |

\*\*\*\*\* - no data

Flight 30 Test point 5

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 19900. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 334.1 Rrho = 3004000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5581                                 | 0.1531                                  | 0.0706                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4105 |
| 0.0500         | *****  | 0.0700           | 0.5248 |
| 0.1100         | *****  | 0.1200           | 0.6294 |
| 0.1700         | *****  | 0.1800           | 0.6980 |
| 0.2200         | *****  | 0.2100           | 0.7408 |
| 0.2700         | *****  | 0.2700           | 0.7984 |
| 0.3200         | *****  | 0.3100           | 0.8484 |
| 0.3600         | *****  | 0.3700           | 0.8900 |
| 0.4100         | *****  | 0.4200           | 0.9287 |
| 0.5100         | *****  | 0.5300           | 0.9866 |
| 0.7200         | *****  | 0.7300           | 1.0022 |
| 0.9100         | *****  | 0.9400           | 1.0021 |
| 1.1100         | *****  | 1.1500           | 0.9985 |
| 1.3000         | *****  | 1.3500           | 0.9968 |
| 1.5300         | *****  | 1.5500           | 1.0025 |
| 1.7400         | *****  | 1.7500           | 1.0018 |
| 1.9400         | *****  | 1.9500           | 1.0024 |
| 2.1400         | *****  | 2.1600           | 1.0023 |
| 2.3500         | *****  | 2.3700           | 1.0021 |
| 2.5500         | *****  | 2.5800           | 1.0026 |

\*\*\*\*\* - no data

Flight 30 Test point 6

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 19800. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 334.6 Rrho = 3009000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5603                                 | 0.1514                                  | 0.0702                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4299 |
| 0.0500         | *****  | 0.0700           | 0.5313 |
| 0.1100         | *****  | 0.1200           | 0.6304 |
| 0.1700         | *****  | 0.1800           | 0.7001 |
| 0.2200         | *****  | 0.2100           | 0.7420 |
| 0.2700         | *****  | 0.2700           | 0.8031 |
| 0.3200         | *****  | 0.3100           | 0.8508 |
| 0.3600         | *****  | 0.3700           | 0.8931 |
| 0.4100         | *****  | 0.4200           | 0.9301 |
| 0.5100         | *****  | 0.5300           | 0.9861 |
| 0.7200         | *****  | 0.7300           | 1.0024 |
| 0.9100         | *****  | 0.9400           | 1.0031 |
| 1.1100         | *****  | 1.1500           | 0.9994 |
| 1.3000         | *****  | 1.3500           | 0.9979 |
| 1.5300         | *****  | 1.5500           | 1.0018 |
| 1.7400         | *****  | 1.7500           | 1.0020 |
| 1.9400         | *****  | 1.9500           | 1.0029 |
| 2.1400         | *****  | 2.1600           | 1.0002 |
| 2.3500         | *****  | 2.3700           | 1.0018 |
| 2.5500         | *****  | 2.5800           | 1.0024 |

\*\*\*\*\* - no data

Flight 30 Test point 7

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 20000, Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 386.9 Rrho = 3257000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7236                                 | 0.2066                                  | 0.0829                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5007 |
| 0.0500         | *****  | 0.0700           | 0.2970 |
| 0.1100         | *****  | 0.1200           | 0.3340 |
| 0.1700         | *****  | 0.1800           | 0.5485 |
| 0.2200         | *****  | 0.2100           | 0.6240 |
| 0.2700         | *****  | 0.2700           | 0.7090 |
| 0.3200         | *****  | 0.3100           | 0.7752 |
| 0.3600         | *****  | 0.3700           | 0.8342 |
| 0.4100         | *****  | 0.4200           | 0.8867 |
| 0.5100         | *****  | 0.5300           | 0.9726 |
| 0.7200         | *****  | 0.7300           | 1.0008 |
| 0.9100         | *****  | 0.9400           | 1.0009 |
| 1.1100         | *****  | 1.1500           | 0.9992 |
| 1.3000         | *****  | 1.3500           | 0.9971 |
| 1.5300         | *****  | 1.5500           | 1.0007 |
| 1.7400         | *****  | 1.7500           | 1.0000 |
| 1.9400         | *****  | 1.9500           | 1.0009 |
| 2.1400         | *****  | 2.1600           | 1.0007 |
| 2.3500         | *****  | 2.3700           | 1.0003 |
| 2.5500         | *****  | 2.5800           | 0.9995 |

\*\*\*\*\* - no data

Flight 30 Test point 8

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 384.1 Rrho = 3242000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7214                                 | 0.2055                                  | 0.0819                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4846 |
| 0.0500         | *****  | 0.0700           | 0.2671 |
| 0.1100         | *****  | 0.1200           | 0.3972 |
| 0.1700         | *****  | 0.1800           | 0.5590 |
| 0.2200         | *****  | 0.2100           | 0.6331 |
| 0.2700         | *****  | 0.2700           | 0.7156 |
| 0.3200         | *****  | 0.3100           | 0.7785 |
| 0.3600         | *****  | 0.3700           | 0.8366 |
| 0.4100         | *****  | 0.4200           | 0.8892 |
| 0.5100         | *****  | 0.5300           | 0.9734 |
| 0.7200         | *****  | 0.7300           | 1.0010 |
| 0.9100         | *****  | 0.9400           | 1.0011 |
| 1.1100         | *****  | 1.1500           | 0.9985 |
| 1.3000         | *****  | 1.3500           | 0.9961 |
| 1.5300         | *****  | 1.5500           | 1.0012 |
| 1.7400         | *****  | 1.7500           | 1.0001 |
| 1.9400         | *****  | 1.9500           | 1.0008 |
| 2.1400         | *****  | 2.1600           | 1.0004 |
| 2.3500         | *****  | 2.3700           | 0.9998 |
| 2.5500         | *****  | 2.5800           | 1.0009 |

\*\*\*\*\* - no data



Flight 30 Test point 9

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = -0.2  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 436.5 Rrho = 3479000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7233                        | 0.2533                         | 0.0868                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5597 |
| 0.0500         | *****  | 0.0700           | 0.5136 |
| 0.1100         | *****  | 0.1200           | 0.2998 |
| 0.1700         | *****  | 0.1800           | 0.2537 |
| 0.2200         | *****  | 0.2100           | 0.4346 |
| 0.2700         | *****  | 0.2700           | 0.5791 |
| 0.3200         | *****  | 0.3100           | 0.6793 |
| 0.3600         | *****  | 0.3700           | 0.7704 |
| 0.4100         | *****  | 0.4200           | 0.8444 |
| 0.5100         | *****  | 0.5300           | 0.9572 |
| 0.7200         | *****  | 0.7300           | 1.0013 |
| 0.9100         | *****  | 0.9400           | 1.0019 |
| 1.1100         | *****  | 1.1500           | 0.9995 |
| 1.3000         | *****  | 1.3500           | 0.9989 |
| 1.5300         | *****  | 1.5500           | 1.0015 |
| 1.7400         | *****  | 1.7500           | 1.0009 |
| 1.9400         | *****  | 1.9500           | 1.0014 |
| 2.1400         | *****  | 2.1600           | 0.9998 |
| 2.3500         | *****  | 2.3700           | 0.9974 |
| 2.5500         | *****  | 2.5800           | 0.9973 |

\*\*\*\*\* - no data

Flight 30 Test point 10

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = -0.2  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 433.7 Rrho = 3469000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7272                                 | 0.2537                                  | 0.0873                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5600 |
| 0.0500         | *****  | 0.0700           | 0.5202 |
| 0.1100         | *****  | 0.1200           | 0.3097 |
| 0.1700         | *****  | 0.1800           | 0.2473 |
| 0.2200         | *****  | 0.2100           | 0.4349 |
| 0.2700         | *****  | 0.2700           | 0.5747 |
| 0.3200         | *****  | 0.3100           | 0.6766 |
| 0.3600         | *****  | 0.3700           | 0.7688 |
| 0.4100         | *****  | 0.4200           | 0.8418 |
| 0.5100         | *****  | 0.5300           | 0.9566 |
| 0.7200         | *****  | 0.7300           | 1.0005 |
| 0.9100         | *****  | 0.9400           | 1.0020 |
| 1.1100         | *****  | 1.1500           | 0.9993 |
| 1.3000         | *****  | 1.3500           | 0.9987 |
| 1.5300         | *****  | 1.5500           | 1.0018 |
| 1.7400         | *****  | 1.7500           | 1.0012 |
| 1.9400         | *****  | 1.9500           | 1.0017 |
| 2.1400         | *****  | 2.1600           | 0.9995 |
| 2.3500         | *****  | 2.3700           | 0.9979 |
| 2.5500         | *****  | 2.5800           | 0.9974 |

\*\*\*\*\* - no data

Flight 30 Test point 11

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 437.1 Rrho = 3488000.

|                       |                               |                                |                            |                     |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7190                        | 0.2372                         | 0.0819                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3990 |
| 0.0500         | *****  | 0.0700           | 0.2754 |
| 0.1100         | *****  | 0.1200           | 0.3028 |
| 0.1700         | *****  | 0.1800           | 0.4677 |
| 0.2200         | *****  | 0.2100           | 0.5630 |
| 0.2700         | *****  | 0.2700           | 0.6675 |
| 0.3200         | *****  | 0.3100           | 0.7467 |
| 0.3600         | *****  | 0.3700           | 0.8179 |
| 0.4100         | *****  | 0.4200           | 0.8749 |
| 0.5100         | *****  | 0.5300           | 0.9627 |
| 0.7200         | *****  | 0.7300           | 1.0019 |
| 0.9100         | *****  | 0.9400           | 1.0024 |
| 1.1100         | *****  | 1.1500           | 0.9981 |
| 1.3000         | *****  | 1.3500           | 0.9989 |
| 1.5300         | *****  | 1.5500           | 1.0000 |
| 1.7400         | *****  | 1.7500           | 0.9994 |
| 1.9400         | *****  | 1.9500           | 1.0019 |
| 2.1400         | *****  | 2.1600           | 1.0008 |
| 2.3500         | *****  | 2.3700           | 0.9991 |
| 2.5500         | *****  | 2.5800           | 0.9984 |

\*\*\*\*\* - no data

Flight 30 Test point 12

Sweep, deg = 25.4 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 432.0 Rrho = 3464000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7252                                 | 0.2465                                  | 0.0840                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3530 |
| 0.0500         | *****  | 0.0700           | 0.2495 |
| 0.1100         | *****  | 0.1200           | 0.2921 |
| 0.1700         | *****  | 0.1800           | 0.4489 |
| 0.2200         | *****  | 0.2100           | 0.5251 |
| 0.2700         | *****  | 0.2700           | 0.6421 |
| 0.3200         | *****  | 0.3100           | 0.7243 |
| 0.3600         | *****  | 0.3700           | 0.8027 |
| 0.4100         | *****  | 0.4200           | 0.8634 |
| 0.5100         | *****  | 0.5300           | 0.9567 |
| 0.7200         | *****  | 0.7300           | 1.0009 |
| 0.9100         | *****  | 0.9400           | 1.0008 |
| 1.1100         | *****  | 1.1500           | 0.9995 |
| 1.3000         | *****  | 1.3500           | 0.9986 |
| 1.5300         | *****  | 1.5500           | 1.0009 |
| 1.7400         | *****  | 1.7500           | 1.0006 |
| 1.9400         | *****  | 1.9500           | 1.0016 |
| 2.1400         | *****  | 2.1600           | 0.9994 |
| 2.3500         | *****  | 2.3700           | 0.9990 |
| 2.5500         | *****  | 2.5800           | 0.9986 |

\*\*\*\*\* - no data

Flight 30 Test point 13

Sweep, deg = 25.3 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 269.6 Rrho = 2505000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5631                                 | 0.1582                                  | 0.0724                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3988 |
| 0.0500         | *****  | 0.0700           | 0.5129 |
| 0.1100         | *****  | 0.1200           | 0.6175 |
| 0.1700         | *****  | 0.1800           | 0.6872 |
| 0.2200         | *****  | 0.2100           | 0.7315 |
| 0.2700         | *****  | 0.2700           | 0.7909 |
| 0.3200         | *****  | 0.3100           | 0.8399 |
| 0.3600         | *****  | 0.3700           | 0.8828 |
| 0.4100         | *****  | 0.4200           | 0.9218 |
| 0.5100         | *****  | 0.5300           | 0.9833 |
| 0.7200         | *****  | 0.7300           | 1.0018 |
| 0.9100         | *****  | 0.9400           | 1.0037 |
| 1.1100         | *****  | 1.1500           | 0.9981 |
| 1.3000         | *****  | 1.3500           | 0.9973 |
| 1.5300         | *****  | 1.5500           | 1.0028 |
| 1.7400         | *****  | 1.7500           | 1.0012 |
| 1.9400         | *****  | 1.9500           | 1.0036 |
| 2.1400         | *****  | 2.1600           | 1.0024 |
| 2.3500         | *****  | 2.3700           | 1.0021 |
| 2.5500         | *****  | 2.5800           | 1.0036 |

\*\*\*\*\* - no data

Flight 30 Test point 14

Sweep, deg = 25.4 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 271.4 Rrho = 2516000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5580                                 | 0.1592                                  | 0.0723                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3909 |
| 0.0500         | *****  | 0.0700           | 0.5059 |
| 0.1100         | *****  | 0.1200           | 0.6163 |
| 0.1700         | *****  | 0.1800           | 0.6866 |
| 0.2200         | *****  | 0.2100           | 0.7324 |
| 0.2700         | *****  | 0.2700           | 0.7910 |
| 0.3200         | *****  | 0.3100           | 0.8375 |
| 0.3600         | *****  | 0.3700           | 0.8797 |
| 0.4100         | *****  | 0.4200           | 0.9213 |
| 0.5100         | *****  | 0.5300           | 0.9853 |
| 0.7200         | *****  | 0.7300           | 1.0028 |
| 0.9100         | *****  | 0.9400           | 1.0041 |
| 1.1100         | *****  | 1.1500           | 0.9980 |
| 1.3000         | *****  | 1.3500           | 0.9959 |
| 1.5300         | *****  | 1.5500           | 1.0026 |
| 1.7400         | *****  | 1.7500           | 1.0020 |
| 1.9400         | *****  | 1.9500           | 1.0046 |
| 2.1400         | *****  | 2.1600           | 1.0013 |
| 2.3500         | *****  | 2.3700           | 1.0013 |
| 2.5500         | *****  | 2.5800           | 1.0023 |

\*\*\*\*\* - no data

Flight 30 Test point 15

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 269.9 Rrho = 2508000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5941                                 | 0.1520                                  | 0.0749                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5393 |
| 0.0500         | *****  | 0.0700           | 0.5903 |
| 0.1100         | *****  | 0.1200           | 0.6541 |
| 0.1700         | *****  | 0.1800           | 0.7029 |
| 0.2200         | *****  | 0.2100           | 0.7386 |
| 0.2700         | *****  | 0.2700           | 0.7892 |
| 0.3200         | *****  | 0.3100           | 0.8358 |
| 0.3600         | *****  | 0.3700           | 0.8708 |
| 0.4100         | *****  | 0.4200           | 0.9069 |
| 0.5100         | *****  | 0.5300           | 0.9698 |
| 0.7200         | *****  | 0.7300           | 1.0038 |
| 0.9100         | *****  | 0.9400           | 1.0050 |
| 1.1100         | *****  | 1.1500           | 1.0009 |
| 1.3000         | *****  | 1.3500           | 0.9979 |
| 1.5300         | *****  | 1.5500           | 1.0037 |
| 1.7400         | *****  | 1.7500           | 1.0031 |
| 1.9400         | *****  | 1.9500           | 1.0044 |
| 2.1400         | *****  | 2.1600           | 1.0047 |
| 2.3500         | *****  | 2.3700           | 1.0027 |
| 2.5500         | *****  | 2.5800           | 1.0040 |

\*\*\*\*\* - no data

Flight 30 Test point 16

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 2.2  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 270.3 Rho = 2509000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7270                                 | 0.1592                                  | 0.0799                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5428 |
| 0.0500         | *****  | 0.0700           | 0.5805 |
| 0.1100         | *****  | 0.1200           | 0.6490 |
| 0.1700         | *****  | 0.1800           | 0.6976 |
| 0.2200         | *****  | 0.2100           | 0.7354 |
| 0.2700         | *****  | 0.2700           | 0.7831 |
| 0.3200         | *****  | 0.3100           | 0.8269 |
| 0.3600         | *****  | 0.3700           | 0.8588 |
| 0.4100         | *****  | 0.4200           | 0.8962 |
| 0.5100         | *****  | 0.5300           | 0.9600 |
| 0.7200         | *****  | 0.7300           | 1.0005 |
| 0.9100         | *****  | 0.9400           | 1.0038 |
| 1.1100         | *****  | 1.1500           | 0.9974 |
| 1.3000         | *****  | 1.3500           | 0.9935 |
| 1.5300         | *****  | 1.5500           | 0.9994 |
| 1.7400         | *****  | 1.7500           | 1.0008 |
| 1.9400         | *****  | 1.9500           | 1.0019 |
| 2.1400         | *****  | 2.1600           | 1.0000 |
| 2.3500         | *****  | 2.3700           | 1.0010 |
| 2.5500         | *****  | 2.5800           | 1.0017 |

\*\*\*\*\* - no data



Flight 30 Test point 17

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 2.2  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 270.8 Rrho = 2513000.

|                       |                               |                                |                            |                     |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7394                        | 0.1532                         | 0.0790                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5825 |
| 0.0500         | *****  | 0.0700           | 0.6122 |
| 0.1100         | *****  | 0.1200           | 0.6752 |
| 0.1700         | *****  | 0.1800           | 0.7138 |
| 0.2200         | *****  | 0.2100           | 0.7445 |
| 0.2700         | *****  | 0.2700           | 0.7906 |
| 0.3200         | *****  | 0.3100           | 0.8319 |
| 0.3600         | *****  | 0.3700           | 0.8668 |
| 0.4100         | *****  | 0.4200           | 0.8979 |
| 0.5100         | *****  | 0.5300           | 0.9556 |
| 0.7200         | *****  | 0.7300           | 0.9982 |
| 0.9100         | *****  | 0.9400           | 1.0024 |
| 1.1100         | *****  | 1.1500           | 0.9975 |
| 1.3000         | *****  | 1.3500           | 0.9949 |
| 1.5300         | *****  | 1.5500           | 1.0002 |
| 1.7400         | *****  | 1.7500           | 1.0012 |
| 1.9400         | *****  | 1.9500           | 1.0023 |
| 2.1400         | *****  | 2.1600           | 1.0016 |
| 2.3500         | *****  | 2.3700           | 0.9974 |
| 2.5500         | *****  | 2.5800           | 1.0043 |

\*\*\*\*\* - no data

Flight 30 Test point 18

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 2.4  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 272.5 Rho/ρ = 2525000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7264                                 | 0.1545                                  | 0.0797                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5839 |
| 0.0500         | *****  | 0.0700           | 0.6091 |
| 0.1100         | *****  | 0.1200           | 0.6690 |
| 0.1700         | *****  | 0.1800           | 0.7079 |
| 0.2200         | *****  | 0.2100           | 0.7411 |
| 0.2700         | *****  | 0.2700           | 0.7901 |
| 0.3200         | *****  | 0.3100           | 0.8291 |
| 0.3600         | *****  | 0.3700           | 0.8608 |
| 0.4100         | *****  | 0.4200           | 0.8945 |
| 0.5100         | *****  | 0.5300           | 0.9546 |
| 0.7200         | *****  | 0.7300           | 1.0007 |
| 0.9100         | *****  | 0.9400           | 1.0021 |
| 1.1100         | *****  | 1.1500           | 0.9970 |
| 1.3000         | *****  | 1.3500           | 0.9941 |
| 1.5300         | *****  | 1.5500           | 1.0019 |
| 1.7400         | *****  | 1.7500           | 0.9998 |
| 1.9400         | *****  | 1.9500           | 1.0016 |
| 2.1400         | *****  | 2.1600           | 0.9998 |
| 2.3500         | *****  | 2.3700           | 1.0013 |
| 2.5500         | *****  | 2.5800           | 1.0018 |

\*\*\*\*\* - no data

Flight 30 Test point 19

Sweep, deg = 30.1 Mach = 0.80 hp, ft = 34900. Angle of attack, deg = 2.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 223.9 Rrho = 2004000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7593                                 | 0.3421                                  | 0.0994                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.1359 |
| 0.0500         | *****  | 0.0700           | 0.1658 |
| 0.1100         | *****  | 0.1200           | 0.2488 |
| 0.1700         | *****  | 0.1800           | 0.2976 |
| 0.2200         | *****  | 0.2100           | 0.3360 |
| 0.2700         | *****  | 0.2700           | 0.4315 |
| 0.3200         | *****  | 0.3100           | 0.5230 |
| 0.3600         | *****  | 0.3700           | 0.6085 |
| 0.4100         | *****  | 0.4200           | 0.6943 |
| 0.5100         | *****  | 0.5300           | 0.8484 |
| 0.7200         | *****  | 0.7300           | 0.9993 |
| 0.9100         | *****  | 0.9400           | 1.0037 |
| 1.1100         | *****  | 1.1500           | 0.9988 |
| 1.3000         | *****  | 1.3500           | 0.9957 |
| 1.5300         | *****  | 1.5500           | 1.0021 |
| 1.7400         | *****  | 1.7500           | 1.0003 |
| 1.9400         | *****  | 1.9500           | 1.0034 |
| 2.1400         | *****  | 2.1600           | 1.0017 |
| 2.3500         | *****  | 2.3700           | 0.9995 |
| 2.5500         | *****  | 2.5800           | 0.9949 |

\*\*\*\*\* - no data

Flight 30 Test point 20

Sweep, deg = 30.1 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 2.3  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 221.5 Rrho = 1989000.

|                       |                |                |                |            |
|-----------------------|----------------|----------------|----------------|------------|
|                       | Boundary layer | Displacement   | Momentum       | Transition |
|                       | height, in.    | thickness, in. | thickness, in. | strip      |
| Middle station rake   | *****          | *****          | *****          | none       |
| Outboard station rake | 0.7296         | 0.3325         | 0.1000         | 0.1 x/c    |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.1736 |
| 0.0500         | *****  | 0.0700           | 0.1596 |
| 0.1100         | *****  | 0.1200           | 0.2562 |
| 0.1700         | *****  | 0.1800           | 0.3238 |
| 0.2200         | *****  | 0.2100           | 0.3536 |
| 0.2700         | *****  | 0.2700           | 0.4529 |
| 0.3200         | *****  | 0.3100           | 0.5368 |
| 0.3600         | *****  | 0.3700           | 0.6220 |
| 0.4100         | *****  | 0.4200           | 0.7068 |
| 0.5100         | *****  | 0.5300           | 0.8582 |
| 0.7200         | *****  | 0.7300           | 1.0002 |
| 0.9100         | *****  | 0.9400           | 1.0037 |
| 1.1100         | *****  | 1.1500           | 0.9970 |
| 1.3000         | *****  | 1.3500           | 0.9961 |
| 1.5300         | *****  | 1.5500           | 1.0013 |
| 1.7400         | *****  | 1.7500           | 1.0003 |
| 1.9400         | *****  | 1.9500           | 1.0043 |
| 2.1400         | *****  | 2.1600           | 1.0020 |
| 2.3500         | *****  | 2.3700           | 0.9993 |
| 2.5500         | *****  | 2.5800           | 0.9960 |

\*\*\*\*\* - no data

Flight 30 Test point 21

Sweep, deg = 25.1 Mach = 0.80 hp, ft = 34900. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 224.0 R<sub>rho</sub> = 2006000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 1.1865                                 | 0.5523                                  | 0.1152                              | 0.1 x/c                     |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.1285             |
| 0.0500         | *****              | 0.0700           | 0.1346             |
| 0.1100         | *****              | 0.1200           | 0.0904             |
| 0.1700         | *****              | 0.1800           | 0.1431             |
| 0.2200         | *****              | 0.2100           | 0.2295             |
| 0.2700         | *****              | 0.2700           | 0.1814             |
| 0.3200         | *****              | 0.3100           | 0.0517             |
| 0.3600         | *****              | 0.3700           | 0.1716             |
| 0.4100         | *****              | 0.4200           | 0.2944             |
| 0.5100         | *****              | 0.5300           | 0.4961             |
| 0.7200         | *****              | 0.7300           | 0.8236             |
| 0.9100         | *****              | 0.9400           | 0.9858             |
| 1.1100         | *****              | 1.1500           | 0.9981             |
| 1.3000         | *****              | 1.3500           | 0.9957             |
| 1.5300         | *****              | 1.5500           | 1.0020             |
| 1.7400         | *****              | 1.7500           | 1.0005             |
| 1.9400         | *****              | 1.9500           | 1.0040             |
| 2.1400         | *****              | 2.1600           | 0.9996             |
| 2.3500         | *****              | 2.3700           | 0.9995             |
| 2.5500         | *****              | 2.5800           | 1.0007             |

\*\*\*\*\* - no data

Flight 30 Test point 22

Sweep, deg = 25.1 Mach = 0.79 hp, ft = 35000. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 219.3 Rrho = 1982000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.9150                        | 0.4369                         | 0.0924                     | 0.1 x/c             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.0824             |
| 0.0500         | *****              | 0.0700           | 0.0352             |
| 0.1100         | *****              | 0.1200           | 0.1317             |
| 0.1700         | *****              | 0.1800           | 0.1250             |
| 0.2200         | *****              | 0.2100           | 0.0984             |
| 0.2700         | *****              | 0.2700           | 0.2364             |
| 0.3200         | *****              | 0.3100           | 0.3503             |
| 0.3600         | *****              | 0.3700           | 0.4337             |
| 0.4100         | *****              | 0.4200           | 0.5250             |
| 0.5100         | *****              | 0.5300           | 0.7227             |
| 0.7200         | *****              | 0.7300           | 0.9784             |
| 0.9100         | *****              | 0.9400           | 1.0026             |
| 1.1100         | *****              | 1.1500           | 0.9966             |
| 1.3000         | *****              | 1.3500           | 0.9934             |
| 1.5300         | *****              | 1.5500           | 1.0027             |
| 1.7400         | *****              | 1.7500           | 1.0013             |
| 1.9400         | *****              | 1.9500           | 1.0033             |
| 2.1400         | *****              | 2.1600           | 0.9993             |
| 2.3500         | *****              | 2.3700           | 1.0009             |
| 2.5500         | *****              | 2.5800           | 0.9999             |

\*\*\*\*\* - no data

Flight 30 Test point 23

Sweep, deg = 20.1 Mach = 0.80 hp, ft = 30000. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 282.0 Rho = 2420000.

|                       | Boundary layer<br>height, In.<br>***** | Displacement<br>thickness, In.<br>***** | Momentum<br>thickness, In.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7232                                 | 0.2835                                  | 0.0910                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, In.         | U/Umax | Y, In.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4716 |
| 0.0500         | *****  | 0.0700           | 0.4627 |
| 0.1100         | *****  | 0.1200           | 0.2681 |
| 0.1700         | *****  | 0.1800           | 0.2066 |
| 0.2200         | *****  | 0.2100           | 0.3722 |
| 0.2700         | *****  | 0.2700           | 0.5238 |
| 0.3200         | *****  | 0.3100           | 0.6315 |
| 0.3600         | *****  | 0.3700           | 0.7233 |
| 0.4100         | *****  | 0.4200           | 0.8024 |
| 0.5100         | *****  | 0.5300           | 0.9292 |
| 0.7200         | *****  | 0.7300           | 1.0022 |
| 0.9100         | *****  | 0.9400           | 1.0030 |
| 1.1100         | *****  | 1.1500           | 0.9993 |
| 1.3000         | *****  | 1.3500           | 0.9964 |
| 1.5300         | *****  | 1.5500           | 1.0023 |
| 1.7400         | *****  | 1.7500           | 1.0005 |
| 1.9400         | *****  | 1.9500           | 1.0034 |
| 2.1400         | *****  | 2.1600           | 1.0009 |
| 2.3500         | *****  | 2.3700           | 0.9964 |
| 2.5500         | *****  | 2.5800           | 0.9956 |

\*\*\*\*\* - no data

Flight 30 Test point 24

Sweep, deg = 20.1 Mach = 0.80 hp, ft = 30000. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 281.3 Rrho = 2421000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7237                                 | 0.2969                                  | 0.0919                              | G.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4371 |
| 0.0500         | *****  | 0.0700           | 0.4203 |
| 0.1100         | *****  | 0.1200           | 0.2478 |
| 0.1700         | *****  | 0.1800           | 0.1724 |
| 0.2200         | *****  | 0.2100           | 0.3424 |
| 0.2700         | *****  | 0.2700           | 0.4999 |
| 0.3200         | *****  | 0.3100           | 0.6042 |
| 0.3600         | *****  | 0.3700           | 0.7001 |
| 0.4100         | *****  | 0.4200           | 0.7850 |
| 0.5100         | *****  | 0.5300           | 0.9171 |
| 0.7200         | *****  | 0.7300           | 1.0024 |
| 0.9100         | *****  | 0.9400           | 1.0028 |
| 1.1100         | *****  | 1.1500           | 0.9992 |
| 1.3000         | *****  | 1.3500           | 0.9973 |
| 1.5300         | *****  | 1.5500           | 1.0030 |
| 1.7400         | *****  | 1.7500           | 1.0020 |
| 1.9400         | *****  | 1.9500           | 1.0025 |
| 2.1400         | *****  | 2.1600           | 1.0019 |
| 2.3500         | *****  | 2.3700           | 0.9951 |
| 2.5500         | *****  | 2.5800           | 0.9937 |

\*\*\*\*\* - no data



Flight 30 Test point 25

Sweep, deg = 20.1 Mach = 0.80 hp, ft = 29900. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 280.4 Rrho = 2413000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7289                                 | 0.3026                                  | 0.0981                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.6061 |
| 0.0500         | *****  | 0.0700           | 0.5963 |
| 0.1100         | *****  | 0.1200           | 0.4473 |
| 0.1700         | *****  | 0.1800           | 0.3246 |
| 0.2200         | *****  | 0.2100           | 0.1084 |
| 0.2700         | *****  | 0.2700           | 0.3832 |
| 0.3200         | *****  | 0.3100           | 0.5351 |
| 0.3600         | *****  | 0.3700           | 0.6369 |
| 0.4100         | *****  | 0.4200           | 0.7294 |
| 0.5100         | *****  | 0.5300           | 0.8910 |
| 0.7200         | *****  | 0.7300           | 1.0006 |
| 0.9100         | *****  | 0.9400           | 1.0035 |
| 1.1100         | *****  | 1.1500           | 0.9988 |
| 1.3000         | *****  | 1.3500           | 0.9974 |
| 1.5300         | *****  | 1.5500           | 1.0013 |
| 1.7400         | *****  | 1.7500           | 1.0020 |
| 1.9400         | *****  | 1.9500           | 1.0023 |
| 2.1400         | *****  | 2.1600           | 1.0015 |
| 2.3500         | *****  | 2.3700           | 0.9972 |
| 2.5500         | *****  | 2.5800           | 0.9959 |

\*\*\*\*\* - no data

Flight 30 Test point 26

Sweep, deg = 20.1 Mach = 0.80 hp, ft = 30300. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 278.9 Rrho = 2400000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7235                                 | 0.2851                                  | 0.0908                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4824 |
| 0.0500         | *****  | 0.0700           | 0.4628 |
| 0.1100         | *****  | 0.1200           | 0.2672 |
| 0.1700         | *****  | 0.1800           | 0.1955 |
| 0.2200         | *****  | 0.2100           | 0.3656 |
| 0.2700         | *****  | 0.2700           | 0.5181 |
| 0.3200         | *****  | 0.3100           | 0.6264 |
| 0.3600         | *****  | 0.3700           | 0.7192 |
| 0.4100         | *****  | 0.4200           | 0.8003 |
| 0.5100         | *****  | 0.5300           | 0.9288 |
| 0.7200         | *****  | 0.7300           | 1.0021 |
| 0.9100         | *****  | 0.9400           | 1.0033 |
| 1.1100         | *****  | 1.1500           | 1.0001 |
| 1.3000         | *****  | 1.3500           | 0.9974 |
| 1.5300         | *****  | 1.5500           | 1.0017 |
| 1.7400         | *****  | 1.7500           | 1.0014 |
| 1.9400         | *****  | 1.9500           | 1.0023 |
| 2.1400         | *****  | 2.1600           | 1.0014 |
| 2.3500         | *****  | 2.3700           | 0.9955 |
| 2.5500         | *****  | 2.5800           | 0.9948 |

\*\*\*\*\* - no data

Flight 30 Test point 27

Sweep, deg = 20.1 Mach = 0.81 hp, ft = 30000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 284.9 Rnpu = 2440000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.9446                        | 0.4736                         | 0.0965                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.0683 |
| 0.0500         | *****  | 0.0700           | 0.0865 |
| 0.1100         | *****  | 0.1200           | 0.0180 |
| 0.1700         | *****  | 0.1800           | 0.0910 |
| 0.2200         | *****  | 0.2100           | 0.1207 |
| 0.2700         | *****  | 0.2700           | 0.1594 |
| 0.3200         | *****  | 0.3100           | 0.2661 |
| 0.3600         | *****  | 0.3700           | 0.3701 |
| 0.4100         | *****  | 0.4200           | 0.4701 |
| 0.5100         | *****  | 0.5300           | 0.6656 |
| 0.7200         | *****  | 0.7300           | 0.9403 |
| 0.9100         | *****  | 0.9400           | 0.9988 |
| 1.1100         | *****  | 1.1500           | 0.9990 |
| 1.3000         | *****  | 1.3500           | 0.9971 |
| 1.5300         | *****  | 1.5700           | 1.0018 |
| 1.7400         | *****  | 1.7500           | 1.0005 |
| 1.9400         | *****  | 1.9500           | 1.0025 |
| 2.1400         | *****  | 2.1600           | 1.0005 |
| 2.3500         | *****  | 2.3700           | 1.0006 |
| 2.5500         | *****  | 2.5800           | 0.9991 |

\*\*\*\*\* - no data

Flight 30 Test point 28

Sweep, deg = 25.4 Mach = 0.80 hp, ft = 30000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 283.1 Rrho = 2430000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7208                        | 0.2643                         | 0.0843                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3728 |
| 0.0500         | *****  | 0.0700           | 0.3119 |
| 0.1100         | *****  | 0.1200           | 0.2030 |
| 0.1700         | *****  | 0.1800           | 0.3982 |
| 0.2200         | *****  | 0.2100           | 0.4944 |
| 0.2700         | *****  | 0.2700           | 0.6056 |
| 0.3200         | *****  | 0.3100           | 0.6988 |
| 0.3600         | *****  | 0.3700           | 0.7753 |
| 0.4100         | *****  | 0.4200           | 0.8437 |
| 0.5100         | *****  | 0.5300           | 0.9501 |
| 0.7200         | *****  | 0.7300           | 1.0021 |
| 0.9100         | *****  | 0.9400           | 1.0034 |
| 1.1100         | *****  | 1.1500           | 0.9987 |
| 1.3000         | *****  | 1.3500           | 0.9976 |
| 1.5300         | *****  | 1.5500           | 1.0013 |
| 1.7400         | *****  | 1.7500           | 1.0019 |
| 1.9400         | *****  | 1.9500           | 1.0019 |
| 2.1400         | *****  | 2.1600           | 1.0017 |
| 2.3500         | *****  | 2.3700           | 0.9958 |
| 2.5500         | *****  | 2.5800           | 0.9956 |

\*\*\*\*\* - no data

Flight 30 Test point 29

Sweep, deg = 25.4 Mach = 0.80 hp, ft = 30300. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 276.9 Rrho = 2391000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7256                                 | 0.2561                                  | 0.0855                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3682 |
| 0.0500         | *****  | 0.0700           | 0.2974 |
| 0.1100         | *****  | 0.1200           | 0.2456 |
| 0.1700         | *****  | 0.1800           | 0.4092 |
| 0.2200         | *****  | 0.2100           | 0.5065 |
| 0.2700         | *****  | 0.2700           | 0.6198 |
| 0.3200         | *****  | 0.3100           | 0.7052 |
| 0.3600         | *****  | 0.3700           | 0.7849 |
| 0.4100         | *****  | 0.4200           | 0.8512 |
| 0.5100         | *****  | 0.5300           | 0.9523 |
| 0.7200         | *****  | 0.7300           | 1.0009 |
| 0.9100         | *****  | 0.9400           | 1.0027 |
| 1.1100         | *****  | 1.1500           | 0.9979 |
| 1.3000         | *****  | 1.3500           | 0.9973 |
| 1.5300         | *****  | 1.5500           | 1.0001 |
| 1.7400         | *****  | 1.7500           | 1.0005 |
| 1.9400         | *****  | 1.9500           | 1.0017 |
| 2.1400         | *****  | 2.1600           | 1.0007 |
| 2.3500         | *****  | 2.3700           | 0.9994 |
| 2.5500         | *****  | 2.5300           | 0.9988 |

\*\*\*\*\* .. no data

Flight 30 Test point 30

Sweep, deg = 25.4 Mach = 0.82 hp, ft = 29900. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 293.0 Rnpu = 2483000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.9391                                 | 0.4675                                  | 0.1032                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.1221 |
| 0.0500         | *****  | 0.0700           | 0.1340 |
| 0.1100         | *****  | 0.1200           | 0.1138 |
| 0.1700         | *****  | 0.1800           | 0.1501 |
| 0.2200         | *****  | 0.2100           | 0.1600 |
| 0.2700         | *****  | 0.2700           | 0.0972 |
| 0.3200         | *****  | 0.3100           | 0.2560 |
| 0.3600         | *****  | 0.3700           | 0.3572 |
| 0.4100         | *****  | 0.4200           | 0.4656 |
| 0.5100         | *****  | 0.5300           | 0.6594 |
| 0.7200         | *****  | 0.7300           | 0.9400 |
| 0.9100         | *****  | 0.9400           | 1.0002 |
| 1.1100         | *****  | 1.1500           | 0.9982 |
| 1.3000         | *****  | 1.3500           | 0.9971 |
| 1.5300         | *****  | 1.5500           | 1.0024 |
| 1.7400         | *****  | 1.7500           | 1.0004 |
| 1.9400         | *****  | 1.9500           | 1.0030 |
| 2.1400         | *****  | 2.1600           | 1.0004 |
| 2.3500         | *****  | 2.3700           | 0.9990 |
| 2.5500         | *****  | 2.5800           | 0.9992 |

\*\*\*\*\* - no data

Flight 30 Test point 31

Sweep, deg = 30.1 Mach = 0.81 hp, ft = 30000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 284.8 Rnpu = 2447000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7193                        | 0.2723                         | 0.0961                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.2099 |
| 0.0500         | *****  | 0.0700           | 0.2660 |
| 0.1100         | *****  | 0.1200           | 0.3556 |
| 0.1700         | *****  | 0.1800           | 0.4207 |
| 0.2200         | *****  | 0.2100           | 0.4757 |
| 0.2700         | *****  | 0.2700           | 0.5654 |
| 0.3200         | *****  | 0.3100           | 0.6488 |
| 0.3600         | *****  | 0.3700           | 0.7246 |
| 0.4100         | *****  | 0.4200           | 0.7934 |
| 0.5100         | *****  | 0.5300           | 0.9218 |
| 0.7200         | *****  | 0.7300           | 1.0039 |
| 0.9100         | *****  | 0.9400           | 1.0035 |
| 1.1100         | *****  | 1.1500           | 0.9987 |
| 1.3000         | *****  | 1.3500           | 0.9956 |
| 1.5300         | *****  | 1.5500           | 1.0018 |
| 1.7400         | *****  | 1.7500           | 1.0017 |
| 1.9400         | *****  | 1.9500           | 1.0028 |
| 2.1400         | *****  | 2.1600           | 0.9989 |
| 2.3500         | *****  | 2.3700           | 0.9960 |
| 2.5500         | *****  | 2.5800           | 0.9969 |

\*\*\*\*\* - no data

Flight 30 Test point 32

Sweep, deg = 30.1 Mach = 0.80 hp, ft = 29800. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 286.1 Rnpu = 2453000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7205                                 | 0.2230                                  | 0.0915                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3368 |
| 0.0500         | *****  | 0.0700           | 0.3953 |
| 0.1100         | *****  | 0.1200           | 0.4794 |
| 0.1700         | *****  | 0.1800           | 0.5407 |
| 0.2200         | *****  | 0.2100           | 0.5834 |
| 0.2700         | *****  | 0.2700           | 0.6551 |
| 0.3200         | *****  | 0.3100           | 0.7192 |
| 0.3600         | *****  | 0.3700           | 0.7817 |
| 0.4100         | *****  | 0.4200           | 0.8487 |
| 0.5100         | *****  | 0.5300           | 0.9564 |
| 0.7200         | *****  | 0.7300           | 1.0019 |
| 0.9100         | *****  | 0.9400           | 1.0049 |
| 1.1100         | *****  | 1.1500           | 0.9996 |
| 1.3000         | *****  | 1.3500           | 0.9966 |
| 1.5300         | *****  | 1.5500           | 1.0007 |
| 1.7400         | *****  | 1.7500           | 0.9993 |
| 1.9400         | *****  | 1.9500           | 1.0018 |
| 2.1400         | *****  | 2.1600           | 0.9983 |
| 2.3500         | *****  | 2.3700           | 0.9973 |
| 2.5500         | *****  | 2.5800           | 0.9994 |

\*\*\*\*\* - no data



Flight 30 Test point 33

Sweep, deg = 30.1 Mach = 0.80 hp, ft = 30000. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 281.6 Rrho = 2424000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.8628                                 | 0.3361                                  | 0.1055                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.1674 |
| 0.0500         | *****  | 0.0700           | 0.1863 |
| 0.1100         | *****  | 0.1200           | 0.2772 |
| 0.1700         | *****  | 0.1800           | 0.3256 |
| 0.2200         | *****  | 0.2100           | 0.3660 |
| 0.2700         | *****  | 0.2700           | 0.4589 |
| 0.3200         | *****  | 0.3100           | 0.5380 |
| 0.3600         | *****  | 0.3700           | 0.6110 |
| 0.4100         | *****  | 0.4200           | 0.6904 |
| 0.5100         | *****  | 0.5300           | 0.8355 |
| 0.7200         | *****  | 0.7300           | 0.9938 |
| 0.9100         | *****  | 0.9400           | 1.0032 |
| 1.1100         | *****  | 1.1500           | 0.9993 |
| 1.3000         | *****  | 1.3500           | 0.9974 |
| 1.5300         | *****  | 1.5500           | 1.0022 |
| 1.7400         | *****  | 1.7500           | 1.0003 |
| 1.9400         | *****  | 1.9500           | 1.0045 |
| 2.1400         | *****  | 2.1600           | 1.0013 |
| 2.3500         | *****  | 2.3700           | 0.9963 |
| 2.5500         | *****  | 2.5800           | 0.9955 |

\*\*\*\*\* - no data

Flight 30 Test point 34

Sweep, deg = 34.9 Mach = 0.81 hp, ft = 30000. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 285.2 Rrho = 2443000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7242                        | 0.1980                         | 0.0925                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4918 |
| 0.0500         | *****  | 0.0700           | 0.5221 |
| 0.1100         | *****  | 0.1200           | 0.5835 |
| 0.1700         | *****  | 0.1800           | 0.6274 |
| 0.2200         | *****  | 0.2100           | 0.6603 |
| 0.2700         | *****  | 0.2700           | 0.7163 |
| 0.3200         | *****  | 0.3100           | 0.7662 |
| 0.3600         | *****  | 0.3700           | 0.8042 |
| 0.4100         | *****  | 0.4200           | 0.8493 |
| 0.5100         | *****  | 0.5300           | 0.9318 |
| 0.7200         | *****  | 0.7300           | 1.0018 |
| 0.9100         | *****  | 0.9400           | 1.0040 |
| 1.1100         | *****  | 1.1500           | 0.9971 |
| 1.3000         | *****  | 1.3500           | 0.9952 |
| 1.5300         | *****  | 1.5500           | 1.0017 |
| 1.7400         | *****  | 1.7500           | 0.9995 |
| 1.9400         | *****  | 1.9500           | 1.0008 |
| 2.1400         | *****  | 2.1600           | 0.9998 |
| 2.3500         | *****  | 2.3700           | 0.9984 |
| 2.5500         | *****  | 2.5800           | 1.0018 |

\*\*\*\*\* - no data

Flight 30 Test point 35

Sweep, deg = 34.8 Mach = 0.81 hp, ft = 29900. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 287.8 Rrho = 2458000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7289                                 | 0.1804                                  | 0.0845                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5006 |
| 0.0500         | *****  | 0.0700           | 0.5353 |
| 0.1100         | *****  | 0.1200           | 0.6009 |
| 0.1700         | *****  | 0.1800           | 0.6439 |
| 0.2200         | *****  | 0.2100           | 0.6888 |
| 0.2700         | *****  | 0.2700           | 0.7471 |
| 0.3200         | *****  | 0.3100           | 0.7982 |
| 0.3600         | *****  | 0.3700           | 0.8412 |
| 0.4100         | *****  | 0.4200           | 0.8806 |
| 0.5100         | *****  | 0.5300           | 0.9570 |
| 0.7200         | *****  | 0.7300           | 1.0002 |
| 0.9100         | *****  | 0.9400           | 1.0033 |
| 1.1100         | *****  | 1.1500           | 0.9977 |
| 1.3000         | *****  | 1.3500           | 0.9943 |
| 1.5300         | *****  | 1.5500           | 1.0013 |
| 1.7400         | *****  | 1.7500           | 1.0005 |
| 1.9400         | *****  | 1.9500           | 1.0023 |
| 2.1400         | *****  | 2.1600           | 0.9998 |
| 2.3500         | *****  | 2.3700           | 0.9996 |
| 2.5500         | *****  | 2.5800           | 1.0010 |

\*\*\*\*\* - no data

Flight 30 Test point 36

Sweep, deg = 34.8 Mach = 0.81 hp, ft = 29900. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 290.4 Rho = 2471000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7211                                 | 0.2352                                  | 0.1025                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4266 |
| 0.0500         | *****  | 0.0700           | 0.4500 |
| 0.1100         | *****  | 0.1200           | 0.5080 |
| 0.1700         | *****  | 0.1800           | 0.5465 |
| 0.2200         | *****  | 0.2100           | 0.5799 |
| 0.2700         | *****  | 0.2700           | 0.6395 |
| 0.3200         | *****  | 0.3100           | 0.6955 |
| 0.3600         | *****  | 0.3700           | 0.7465 |
| 0.4100         | *****  | 0.4200           | 0.8030 |
| 0.5100         | *****  | 0.5300           | 0.9046 |
| 0.7200         | *****  | 0.7300           | 1.0040 |
| 0.9100         | *****  | 0.9400           | 1.0059 |
| 1.1100         | *****  | 1.1500           | 1.0004 |
| 1.3000         | *****  | 1.3500           | 0.9953 |
| 1.5300         | *****  | 1.5500           | 1.0029 |
| 1.7400         | *****  | 1.7500           | 1.0003 |
| 1.9400         | *****  | 1.9500           | 1.0000 |
| 2.1400         | *****  | 2.1600           | 0.9975 |
| 2.3500         | *****  | 2.3700           | 0.9992 |
| 2.5500         | *****  | 2.5800           | 0.9985 |

\*\*\*\*\* - no data

Flight 31 Test point 1

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 4.9  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 169.6 Rrho = 1703000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.9258                                 | 0.1971                                  | 0.1010                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5397 |
| 0.0500         | *****  | 0.0700           | 0.5709 |
| 0.1100         | *****  | 0.1200           | 0.6201 |
| 0.1700         | *****  | 0.1800           | 0.6643 |
| 0.2200         | *****  | 0.2100           | 0.6832 |
| 0.2700         | *****  | 0.2700           | 0.7260 |
| 0.3200         | *****  | 0.3100           | 0.7694 |
| 0.3600         | *****  | 0.3700           | 0.7993 |
| 0.4100         | *****  | 0.4200           | 0.8340 |
| 0.5100         | *****  | 0.5300           | 0.8953 |
| 0.7200         | *****  | 0.7300           | 0.9850 |
| 0.9100         | *****  | 0.9400           | 1.0010 |
| 1.1100         | *****  | 1.1500           | 0.9919 |
| 1.3000         | *****  | 1.3500           | 0.9876 |
| 1.5300         | *****  | 1.5500           | 0.9993 |
| 1.7400         | *****  | 1.7500           | 1.0005 |
| 1.9400         | *****  | 1.9500           | 1.0023 |
| 2.1400         | *****  | 2.1600           | 1.0020 |
| 2.3500         | *****  | 2.3700           | 1.0039 |
| 2.5500         | *****  | 2.5800           | 1.0045 |

\*\*\*\*\* - no data

Flight 31 Test point 2

Sweep, deg = 34.8 Mach = 0.70 hp, ft = 35000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 168.2 Rrho = 1695000.

|                       |                               |                                |                            |                     |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5162                        | 0.1270                         | 0.0630                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5931 |
| 0.0500         | *****  | 0.0700           | 0.6115 |
| 0.1100         | *****  | 0.1200           | 0.6973 |
| 0.1700         | *****  | 0.1800           | 0.7488 |
| 0.2200         | *****  | 0.2100           | 0.7754 |
| 0.2700         | *****  | 0.2700           | 0.8346 |
| 0.3200         | *****  | 0.3100           | 0.8770 |
| 0.3600         | *****  | 0.3700           | 0.9106 |
| 0.4100         | *****  | 0.4200           | 0.9441 |
| 0.5100         | *****  | 0.5300           | 0.9953 |
| 0.7200         | *****  | 0.7300           | 1.0008 |
| 0.9100         | *****  | 0.9400           | 1.0078 |
| 1.1100         | *****  | 1.1500           | 0.9901 |
| 1.3000         | *****  | 1.3500           | 0.9898 |
| 1.5300         | *****  | 1.5500           | 1.0005 |
| 1.7400         | *****  | 1.7500           | 1.0023 |
| 1.9400         | *****  | 1.9500           | 1.0052 |
| 2.1400         | *****  | 2.1600           | 1.0020 |
| 2.3500         | *****  | 2.3700           | 1.0004 |
| 2.5500         | *****  | 2.5800           | 1.0058 |

\*\*\*\*\* - no data

Flight 31 Test point 3

Sweep, deg = 34.5 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 169.5 Rrho = 1711000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5511                                 | 0.1331                                  | 0.0665                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5828 |
| 0.0500         | *****  | 0.0700           | 0.6086 |
| 0.1100         | *****  | 0.1200           | 0.6820 |
| 0.1700         | *****  | 0.1800           | 0.7351 |
| 0.2200         | *****  | 0.2100           | 0.7602 |
| 0.2700         | *****  | 0.2700           | 0.8205 |
| 0.3200         | *****  | 0.3100           | 0.8669 |
| 0.3600         | *****  | 0.3700           | 0.9005 |
| 0.4100         | *****  | 0.4200           | 0.9367 |
| 0.5100         | *****  | 0.5300           | 0.9882 |
| 0.7200         | *****  | 0.7300           | 1.0053 |
| 0.9100         | *****  | 0.9400           | 1.0047 |
| 1.1100         | *****  | 1.1500           | 0.9942 |
| 1.3000         | *****  | 1.3500           | 0.9899 |
| 1.5300         | *****  | 1.5500           | 1.0041 |
| 1.7400         | *****  | 1.7500           | 1.0025 |
| 1.9400         | *****  | 1.9500           | 1.0071 |
| 2.1400         | *****  | 2.1600           | 1.0001 |
| 2.3500         | *****  | 2.3700           | 1.0012 |
| 2.5500         | *****  | 2.5800           | 1.0027 |

\*\*\*\*\* - no data

Flight 31 Test point 4

Sweep, deg = 29.9 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 4.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 171.4 Rrho = 1718000.

|                       |                               |                                |                            |                     |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7408                        | 0.1893                         | 0.0928                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4815 |
| 0.0500         | *****  | 0.0700           | 0.5341 |
| 0.1100         | *****  | 0.1200           | 0.6095 |
| 0.1700         | *****  | 0.1800           | 0.6577 |
| 0.2200         | *****  | 0.2100           | 0.6844 |
| 0.2700         | *****  | 0.2700           | 0.7414 |
| 0.3200         | *****  | 0.3100           | 0.7857 |
| 0.3600         | *****  | 0.3700           | 0.8149 |
| 0.4100         | *****  | 0.4200           | 0.8525 |
| 0.5100         | *****  | 0.5300           | 0.9240 |
| 0.7200         | *****  | 0.7300           | 0.9965 |
| 0.9100         | *****  | 0.9400           | 1.0027 |
| 1.1100         | *****  | 1.1500           | 0.9971 |
| 1.3000         | *****  | 1.3500           | 0.9912 |
| 1.5300         | *****  | 1.5500           | 1.0036 |
| 1.7400         | *****  | 1.7500           | 1.0009 |
| 1.9400         | *****  | 1.9500           | 1.0037 |
| 2.1400         | *****  | 2.1600           | 1.0018 |
| 2.3500         | *****  | 2.3700           | 1.0009 |
| 2.5500         | *****  | 2.5800           | 1.0015 |

\*\*\*\*\* - no data



Flight 31 Test point 5

Sweep, deg = 30.0 Mach = 0.71 hp, ft = 35000. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 175.0 Rnpu = 1738000.

|                       |                               |                                |                            |                     |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5563                        | 0.1370                         | 0.0674                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5586 |
| 0.0500         | *****  | 0.0700           | 0.5963 |
| 0.1100         | *****  | 0.1200           | 0.6718 |
| 0.1700         | *****  | 0.1800           | 0.7268 |
| 0.2200         | *****  | 0.2100           | 0.7575 |
| 0.2700         | *****  | 0.2700           | 0.8122 |
| 0.3200         | *****  | 0.3100           | 0.8642 |
| 0.3600         | *****  | 0.3700           | 0.8983 |
| 0.4100         | *****  | 0.4200           | 0.9380 |
| 0.5100         | *****  | 0.5300           | 0.9890 |
| 0.7200         | *****  | 0.7300           | 1.0032 |
| 0.9100         | *****  | 0.9400           | 1.0059 |
| 1.1100         | *****  | 1.1500           | 0.9944 |
| 1.3000         | *****  | 1.3500           | 0.9930 |
| 1.5300         | *****  | 1.5500           | 1.0025 |
| 1.7400         | *****  | 1.7500           | 1.0011 |
| 1.9400         | *****  | 1.9500           | 1.0052 |
| 2.1400         | *****  | 2.1600           | 1.0017 |
| 2.3500         | *****  | 2.3700           | 1.0004 |
| 2.5500         | *****  | 2.5800           | 1.0035 |

\*\*\*\*\* - no data

Flight 31 Test point 6

Sweep, deg = 29.7 Mach = 0.71 hp, ft = 35200. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 172.6 Rnpu = 1705000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5565                        | 0.1429                         | 0.0698                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5398 |
| 0.0500         | *****  | 0.0700           | 0.5894 |
| 0.1100         | *****  | 0.1200           | 0.6642 |
| 0.1700         | *****  | 0.1800           | 0.7171 |
| 0.2200         | *****  | 0.2100           | 0.7466 |
| 0.2700         | *****  | 0.2700           | 0.8013 |
| 0.3200         | *****  | 0.3100           | 0.8522 |
| 0.3600         | *****  | 0.3700           | 0.8870 |
| 0.4100         | *****  | 0.4200           | 0.9278 |
| 0.5100         | *****  | 0.5300           | 0.9871 |
| 0.7200         | *****  | 0.7300           | 1.0048 |
| 0.9100         | *****  | 0.9400           | 1.0036 |
| 1.1100         | *****  | 1.1500           | 0.9968 |
| 1.3000         | *****  | 1.3500           | 0.9930 |
| 1.5300         | *****  | 1.5500           | 1.0005 |
| 1.7400         | *****  | 1.7500           | 1.0023 |
| 1.9400         | *****  | 1.9500           | 1.0036 |
| 2.1400         | *****  | 2.1600           | 0.9999 |
| 2.3500         | *****  | 2.3700           | 1.0030 |
| 2.5500         | *****  | 2.5800           | 1.0054 |

\*\*\*\*\* - no data

Flight 31 Test point 7

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 4.1  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 172.8 Rnpu = 1720000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7357                                 | 0.2039                                  | 0.0871                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.2131 |
| 0.0500         | *****  | 0.0700           | 0.4067 |
| 0.1100         | *****  | 0.1200           | 0.5525 |
| 0.1700         | *****  | 0.1800           | 0.6350 |
| 0.2200         | *****  | 0.2100           | 0.6698 |
| 0.2700         | *****  | 0.2700           | 0.7306 |
| 0.3200         | *****  | 0.3100           | 0.7872 |
| 0.3600         | *****  | 0.3700           | 0.8237 |
| 0.4100         | *****  | 0.4200           | 0.8644 |
| 0.5100         | *****  | 0.5300           | 0.9406 |
| 0.7200         | *****  | 0.7300           | 0.9985 |
| 0.9100         | *****  | 0.9400           | 1.0039 |
| 1.1100         | *****  | 1.1500           | 0.9951 |
| 1.3000         | *****  | 1.3500           | 0.9941 |
| 1.5300         | *****  | 1.5500           | 1.0015 |
| 1.7400         | *****  | 1.7500           | 0.9994 |
| 1.9400         | *****  | 1.9500           | 1.0041 |
| 2.1400         | *****  | 2.1600           | 1.0005 |
| 2.3500         | *****  | 2.3700           | 0.9994 |
| 2.5500         | *****  | 2.5800           | 1.0035 |

\*\*\*\*\* - no data

Flight 31 Test point 8

Sweep, deg = 24.8 Mach = 0.70 hp, ft = 35000. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 171.5 Rrho = 1699000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5582                                 | 0.1537                                  | 0.0715                              | 0.1 x/c                     |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.4238             |
| 0.0500         | *****              | 0.0700           | 0.5265             |
| 0.1100         | *****              | 0.1200           | 0.6339             |
| 0.1700         | *****              | 0.1800           | 0.7003             |
| 0.2200         | *****              | 0.2100           | 0.7371             |
| 0.2700         | *****              | 0.2700           | 0.7983             |
| 0.3200         | *****              | 0.3100           | 0.8492             |
| 0.3600         | *****              | 0.3700           | 0.8837             |
| 0.4100         | *****              | 0.4200           | 0.9209             |
| 0.5100         | *****              | 0.5300           | 0.9874             |
| 0.7200         | *****              | 0.7300           | 1.0038             |
| 0.9100         | *****              | 0.9400           | 1.0041             |
| 1.1100         | *****              | 1.1500           | 0.9942             |
| 1.3000         | *****              | 1.3500           | 0.9903             |
| 1.5300         | *****              | 1.5500           | 1.0026             |
| 1.7400         | *****              | 1.7500           | 1.0004             |
| 1.9400         | *****              | 1.9500           | 1.0059             |
| 2.1400         | *****              | 2.1600           | 1.0040             |
| 2.3500         | *****              | 2.3700           | 1.0019             |
| 2.5500         | *****              | 2.5800           | 1.0053             |

\*\*\*\*\* - no data

Flight 31 Test point 9

Sweep, deg = 24.6 Mach = 0.70 hp, ft = 35100. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 169.0 Rrho = 1679000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5643                                 | 0.1620                                  | 0.0734                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3726 |
| 0.0500         | *****  | 0.0700           | 0.5005 |
| 0.1100         | *****  | 0.1200           | 0.6132 |
| 0.1700         | *****  | 0.1800           | 0.6904 |
| 0.2200         | *****  | 0.2100           | 0.7262 |
| 0.2700         | *****  | 0.2700           | 0.7865 |
| 0.3200         | *****  | 0.3100           | 0.8387 |
| 0.3600         | *****  | 0.3700           | 0.8747 |
| 0.4100         | *****  | 0.4200           | 0.9136 |
| 0.5100         | *****  | 0.5300           | 0.9835 |
| 0.7200         | *****  | 0.7300           | 1.0059 |
| 0.9100         | *****  | 0.9400           | 1.0073 |
| 1.1100         | *****  | 1.1500           | 0.9973 |
| 1.3000         | *****  | 1.3500           | 0.9923 |
| 1.5300         | *****  | 1.5500           | 1.0009 |
| 1.7400         | *****  | 1.7500           | 1.0023 |
| 1.9400         | *****  | 1.9500           | 1.0037 |
| 2.1400         | *****  | 2.1600           | 1.0030 |
| 2.3500         | *****  | 2.3700           | 1.0008 |
| 2.5500         | *****  | 2.5800           | 1.0030 |

\*\*\*\*\* - no data

Flight 31 Test point 10

Sweep, deg = 20.1 Mach = 0.70 hp, ft = 35000. Angle of attack, deg = 3.4  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 172.6 Rrho = 1696000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none<br>0.1 x/c |
|-----------------------|--|---|-------------------------------------|--|
| Middle station rake   |  |   |                                     |  |
| Outboard station rake | 0.7292                                 | 0.2179                                  | 0.0911                              |  |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5162 |
| 0.0500         | *****  | 0.0700           | 0.3146 |
| 0.1100         | *****  | 0.1200           | 0.3945 |
| 0.1700         | *****  | 0.1800           | 0.5446 |
| 0.2200         | *****  | 0.2100           | 0.6087 |
| 0.2700         | *****  | 0.2700           | 0.6946 |
| 0.3200         | *****  | 0.3100           | 0.7598 |
| 0.3600         | *****  | 0.3700           | 0.8127 |
| 0.4100         | *****  | 0.4200           | 0.8558 |
| 0.5100         | *****  | 0.5300           | 0.9407 |
| 0.7200         | *****  | 0.7300           | 1.0002 |
| 0.9100         | *****  | 0.9400           | 1.0045 |
| 1.1100         | *****  | 1.1500           | 0.9956 |
| 1.3000         | *****  | 1.3500           | 0.9917 |
| 1.5300         | *****  | 1.5500           | 0.9995 |
| 1.7400         | *****  | 1.7500           | 1.0027 |
| 1.9400         | *****  | 1.9500           | 1.0051 |
| 2.1400         | *****  | 2.1600           | 1.0017 |
| 2.3500         | *****  | 2.3700           | 0.9975 |
| 2.5500         | *****  | 2.5800           | 1.0013 |

\*\*\*\*\* - no data

Flight 31 Test point 11

Sweep, deg = 20.1 Mach = 0.70 hp, ft = 35100. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 171.1 Rnpu = 1684000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7178                                 | 0.1959                                  | 0.0773                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3822 |
| 0.0500         | *****  | 0.0700           | 0.1508 |
| 0.1100         | *****  | 0.1200           | 0.5096 |
| 0.1700         | *****  | 0.1800           | 0.6233 |
| 0.2200         | *****  | 0.2100           | 0.6819 |
| 0.2700         | *****  | 0.2700           | 0.7494 |
| 0.3200         | *****  | 0.3100           | 0.8098 |
| 0.3600         | *****  | 0.3700           | 0.8514 |
| 0.4100         | *****  | 0.4200           | 0.8958 |
| 0.5100         | *****  | 0.5300           | 0.9707 |
| 0.7200         | *****  | 0.7300           | 1.0017 |
| 0.9100         | *****  | 0.9400           | 1.0046 |
| 1.1100         | *****  | 1.1500           | 0.9954 |
| 1.3000         | *****  | 1.3500           | 0.9921 |
| 1.5300         | *****  | 1.5500           | 1.0018 |
| 1.7400         | *****  | 1.7500           | 1.0005 |
| 1.9400         | *****  | 1.9500           | 1.0027 |
| 2.1400         | *****  | 2.1600           | 1.0011 |
| 2.3500         | *****  | 2.3700           | 0.9972 |
| 2.5500         | *****  | 2.5800           | 1.0028 |

\*\*\*\*\* - no data

Flight 31 Test point 12

Sweep, deg = 20.1 Mach = 0.70 hp, ft = 34800. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 173.9 Rnpu = 1708000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | *****                      | *****                       | *****                   | none             |
| Outboard station rake | 0.7204                     | 0.2032                      | 0.0811                  | 0.1 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4506 |
| 0.0500         | *****  | 0.0700           | 0.1710 |
| 0.1100         | *****  | 0.1200           | 0.4632 |
| 0.1700         | *****  | 0.1800           | 0.5971 |
| 0.2200         | *****  | 0.2100           | 0.6495 |
| 0.2700         | *****  | 0.2700           | 0.7300 |
| 0.3200         | *****  | 0.3100           | 0.7932 |
| 0.3600         | *****  | 0.3700           | 0.8400 |
| 0.4100         | *****  | 0.4200           | 0.8860 |
| 0.5100         | *****  | 0.5300           | 0.9654 |
| 0.7200         | *****  | 0.7300           | 1.0015 |
| 0.9100         | *****  | 0.9400           | 1.0048 |
| 1.1100         | *****  | 1.1500           | 0.9948 |
| 1.3000         | *****  | 1.3500           | 0.9917 |
| 1.5300         | *****  | 1.5500           | 1.0019 |
| 1.7400         | *****  | 1.7500           | 1.0008 |
| 1.9400         | *****  | 1.9500           | 1.0027 |
| 2.1400         | *****  | 2.1600           | 1.0010 |
| 2.3500         | *****  | 2.3700           | 0.9996 |
| 2.5500         | *****  | 2.5800           | 1.0012 |

\*\*\*\*\* - no data



Flight 31 Test point 13

Sweep, deg = 20.1 Mach = 0.76 hp, ft = 34900. Angle of attack, deg = 2.8  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 199.4 Rrho = 1841000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.8331                        | 0.3579                         | 0.1100                     | 0.1 x/c             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.4670             |
| 0.0500         | *****              | 0.0700           | 0.4668             |
| 0.1100         | *****              | 0.1200           | 0.3338             |
| 0.1700         | *****              | 0.1800           | 0.2420             |
| 0.2200         | *****              | 0.2100           | 0.0622             |
| 0.2700         | *****              | 0.2700           | 0.3282             |
| 0.3200         | *****              | 0.3100           | 0.4455             |
| 0.3600         | *****              | 0.3700           | 0.5293             |
| 0.4100         | *****              | 0.4200           | 0.6134             |
| 0.5100         | *****              | 0.5300           | 0.7872             |
| 0.7200         | *****              | 0.7300           | 0.9935             |
| 0.9100         | *****              | 0.9400           | 1.0060             |
| 1.1100         | *****              | 1.1500           | 0.9987             |
| 1.3000         | *****              | 1.3500           | 0.9947             |
| 1.5300         | *****              | 1.5500           | 1.0040             |
| 1.7400         | *****              | 1.7500           | 1.0024             |
| 1.9400         | *****              | 1.9500           | 1.0039             |
| 2.1400         | *****              | 2.1600           | 1.0009             |
| 2.3500         | *****              | 2.3700           | 0.9944             |
| 2.5500         | *****              | 2.5800           | 0.9949             |

\*\*\*\*\* - no data

Flight 31 Test point 14

Sweep, deg = 20.1 Mach = 0.76 hp, ft = 34900. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 199.2 Rrho = 1852000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7258                                 | 0.2123                                  | 0.0849                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4647 |
| 0.0500         | *****  | 0.0700           | 0.2595 |
| 0.1100         | *****  | 0.1200           | 0.4095 |
| 0.1700         | *****  | 0.1800           | 0.5601 |
| 0.2200         | *****  | 0.2100           | 0.6178 |
| 0.2700         | *****  | 0.2700           | 0.7041 |
| 0.3200         | *****  | 0.3100           | 0.7727 |
| 0.3600         | *****  | 0.3700           | 0.8233 |
| 0.4100         | *****  | 0.4200           | 0.8753 |
| 0.5100         | *****  | 0.5300           | 0.9635 |
| 0.7200         | *****  | 0.7300           | 1.0007 |
| 0.9100         | *****  | 0.9400           | 1.0041 |
| 1.1100         | *****  | 1.1500           | 0.9946 |
| 1.3000         | *****  | 1.3500           | 0.9931 |
| 1.5300         | *****  | 1.5500           | 1.0015 |
| 1.7400         | *****  | 1.7500           | 1.0004 |
| 1.9400         | *****  | 1.9500           | 1.0039 |
| 2.1400         | *****  | 2.1600           | 1.0021 |
| 2.3500         | *****  | 2.3700           | 0.9992 |
| 2.5500         | *****  | 2.5800           | 1.0004 |

\*\*\*\*\* - no data

Flight 31 Test point 15

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 35000. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = 0.4 QBAR, lb/ft<sup>2</sup> = 198.1 Rrho = 1848000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7260                                 | 0.2309                                  | 0.0926                              | 0.1 x/c                     |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.5074             |
| 0.0500         | *****              | 0.0700           | 0.3299             |
| 0.1100         | *****              | 0.1200           | 0.3376             |
| 0.1700         | *****              | 0.1800           | 0.5041             |
| 0.2200         | *****              | 0.2100           | 0.5733             |
| 0.2700         | *****              | 0.2700           | 0.6610             |
| 0.3200         | *****              | 0.3100           | 0.7312             |
| 0.3600         | *****              | 0.3700           | 0.7882             |
| 0.4100         | *****              | 0.4200           | 0.8421             |
| 0.5100         | *****              | 0.5300           | 0.9410             |
| 0.7200         | *****              | 0.7300           | 1.0011             |
| 0.9100         | *****              | 0.9400           | 1.0031             |
| 1.1100         | *****              | 1.1500           | 0.9954             |
| 1.3000         | *****              | 1.3500           | 0.9930             |
| 1.5300         | *****              | 1.5500           | 1.0016             |
| 1.7400         | *****              | 1.7500           | 1.0008             |
| 1.9400         | *****              | 1.9500           | 1.0018             |
| 2.1400         | *****              | 2.1600           | 1.0013             |
| 2.3500         | *****              | 2.3700           | 1.0001             |
| 2.5500         | *****              | 2.5800           | 1.0018             |

\*\*\*\*\* - no data

Flight 31 Test point 16

Sweep, deg = 24.6 Mach = 0.75 hp, ft = 34900. Angle of attack, deg = 2.9  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 197.5 Rrho = 1854000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7123                                 | 0.2343                                  | 0.0913                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.1586 |
| 0.0500         | *****  | 0.0700           | 0.2929 |
| 0.1100         | *****  | 0.1200           | 0.4809 |
| 0.1700         | *****  | 0.1800           | 0.5696 |
| 0.2200         | *****  | 0.2100           | 0.6089 |
| 0.2700         | *****  | 0.2700           | 0.6780 |
| 0.3200         | *****  | 0.3100           | 0.7297 |
| 0.3600         | *****  | 0.3700           | 0.7783 |
| 0.4100         | *****  | 0.4200           | 0.8259 |
| 0.5100         | *****  | 0.5300           | 0.9299 |
| 0.7200         | *****  | 0.7300           | 1.0061 |
| 0.9100         | *****  | 0.9400           | 1.0060 |
| 1.1100         | *****  | 1.1500           | 0.9980 |
| 1.3000         | *****  | 1.3500           | 0.9963 |
| 1.5300         | *****  | 1.5500           | 1.0011 |
| 1.7400         | *****  | 1.7500           | 0.9992 |
| 1.9400         | *****  | 1.9500           | 0.9999 |
| 2.1400         | *****  | 2.1600           | 0.9988 |
| 2.3500         | *****  | 2.3700           | 0.9963 |
| 2.5500         | *****  | 2.5800           | 0.9984 |

\*\*\*\*\* - no data

Flight 31 Test point 17

Sweep, deg = 24.5 Mach = 0.76 hp, ft = 34900, Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.4 QBAR, lb/ft<sup>2</sup> = 199.6 Rrho = 1866000.

|                       |                               |                                |                            |                     |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7165                        | 0.1890                         | 0.0783                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.2404 |
| 0.0500         | *****  | 0.0700           | 0.4123 |
| 0.1100         | *****  | 0.1200           | 0.5574 |
| 0.1700         | *****  | 0.1800           | 0.6402 |
| 0.2200         | *****  | 0.2100           | 0.6790 |
| 0.2700         | *****  | 0.2700           | 0.7473 |
| 0.3200         | *****  | 0.3100           | 0.8060 |
| 0.3600         | *****  | 0.3700           | 0.8518 |
| 0.4100         | *****  | 0.4200           | 0.8981 |
| 0.5100         | *****  | 0.5300           | 0.9747 |
| 0.7200         | *****  | 0.7300           | 1.0016 |
| 0.9100         | *****  | 0.9400           | 1.0327 |
| 1.1100         | *****  | 1.1500           | 0.9949 |
| 1.3000         | *****  | 1.3500           | 0.9910 |
| 1.5300         | *****  | 1.5500           | 1.0021 |
| 1.7400         | *****  | 1.7500           | 1.0003 |
| 1.9400         | *****  | 1.9500           | 1.0041 |
| 2.1400         | *****  | 2.1600           | 1.0007 |
| 2.3500         | *****  | 2.3700           | 1.0014 |
| 2.5500         | *****  | 2.5800           | 1.0012 |

\*\*\*\*\* - no data

Flight 31 Test point 18

Sweep, deg = 24.5 Mach = 0.76 hp, ft = 35000. Angle of attack, deg = 1.  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 199.9 Rrho = 1872000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7171                                 | 0.2091                                  | 0.0791                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.0559 |
| 0.0500         | *****  | 0.0700           | 0.3513 |
| 0.1100         | *****  | 0.1200           | 0.5266 |
| 0.1700         | *****  | 0.1800           | 0.6158 |
| 0.2200         | *****  | 0.2100           | 0.6557 |
| 0.2700         | *****  | 0.2700           | 0.7268 |
| 0.3200         | *****  | 0.3100           | 0.7842 |
| 0.3600         | *****  | 0.3700           | 0.8291 |
| 0.4100         | *****  | 0.4200           | 0.8767 |
| 0.5100         | *****  | 0.5300           | 0.9616 |
| 0.7200         | *****  | 0.7300           | 1.0023 |
| 0.9100         | *****  | 0.9400           | 1.0032 |
| 1.1100         | *****  | 1.1500           | 0.9968 |
| 1.3000         | *****  | 1.3500           | 0.9912 |
| 1.5300         | *****  | 1.5500           | 1.0020 |
| 1.7400         | *****  | 1.7500           | 1.0005 |
| 1.9400         | *****  | 1.9500           | 1.0007 |
| 2.1400         | *****  | 2.1600           | 1.0018 |
| 2.3500         | *****  | 2.3700           | 0.9994 |
| 2.5500         | *****  | 2.5800           | 1.0020 |

\*\*\*\*\* - no data

Flight 31 Test point 19

Sweep, deg = 30.0 Mach = 0.75 hp, ft = 34900. Angle of attack, deg = 3.7  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 195.9 Rrho = 1849000.

|                       |                               |                                |                            |                             |
|-----------------------|-------------------------------|--------------------------------|----------------------------|-----------------------------|
|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip<br>none |
| Middle station rake   | *****                         | *****                          | *****                      |                             |
| Outboard station rake | 0.7325                        | 0.1826                         | 0.0868                     | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4709 |
| 0.0500         | *****  | 0.0700           | 0.5331 |
| 0.1100         | *****  | 0.1200           | 0.6127 |
| 0.1700         | *****  | 0.1800           | 0.6604 |
| 0.2200         | *****  | 0.2100           | 0.6945 |
| 0.2700         | *****  | 0.2700           | 0.7473 |
| 0.3200         | *****  | 0.3100           | 0.7950 |
| 0.3600         | *****  | 0.3700           | 0.8323 |
| 0.4100         | *****  | 0.4200           | 0.8724 |
| 0.5100         | *****  | 0.5300           | 0.9457 |
| 0.7200         | *****  | 0.7300           | 0.9994 |
| 0.9100         | *****  | 0.9400           | 1.0033 |
| 1.1100         | *****  | 1.1500           | 0.9991 |
| 1.3000         | *****  | 1.3500           | 0.9917 |
| 1.5300         | *****  | 1.5500           | 1.0024 |
| 1.7400         | *****  | 1.7500           | 0.9997 |
| 1.9400         | *****  | 1.9500           | 1.0023 |
| 2.1400         | *****  | 2.1600           | 1.0013 |
| 2.3500         | *****  | 2.3700           | 0.9993 |
| 2.5500         | *****  | 2.5800           | 1.0016 |

\*\*\*\*\* - no data

Flight 31 Test point 20

Sweep, deg = 30.0 Mach = 0.75 hp, ft = 35100. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 194.6 Rnpu = 1841000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5544                                 | 0.1486                                  | 0.0706                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5202 |
| 0.0500         | *****  | 0.0700           | 0.5745 |
| 0.1100         | *****  | 0.1200           | 0.6460 |
| 0.1700         | *****  | 0.1800           | 0.6996 |
| 0.2200         | *****  | 0.2100           | 0.7389 |
| 0.2700         | *****  | 0.2700           | 0.7972 |
| 0.3200         | *****  | 0.3100           | 0.8467 |
| 0.3600         | *****  | 0.3700           | 0.8864 |
| 0.4100         | *****  | 0.4200           | 0.9259 |
| 0.5100         | *****  | 0.5300           | 0.9876 |
| 0.7200         | *****  | 0.7300           | 1.0017 |
| 0.9100         | *****  | 0.9400           | 1.0037 |
| 1.1100         | *****  | 1.1500           | 0.9953 |
| 1.3000         | *****  | 1.3500           | 0.9936 |
| 1.5300         | *****  | 1.5500           | 1.0031 |
| 1.7400         | *****  | 1.7500           | 1.0010 |
| 1.9400         | *****  | 1.9500           | 1.0042 |
| 2.1400         | *****  | 2.1600           | 1.0021 |
| 2.3500         | *****  | 2.3700           | 1.0021 |
| 2.5500         | *****  | 2.5800           | 1.0056 |

\*\*\*\*\* - no data



Flight 31 Test point 21

Sweep, deg = 30.0 Mach = 0.76 hp, ft = 35100, Angle of attack, deg = 1.2  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 197.7 Rrho = 1856000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | *****                      | *****                       | *****                   | none             |
| Outboard station rake | 0.5675                     | 0.1611                      | 0.0749                  | 0.1 x/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.4923             |
| 0.0500         | *****              | 0.0700           | 0.5472             |
| 0.1100         | *****              | 0.1200           | 0.6239             |
| 0.1700         | *****              | 0.1800           | 0.6788             |
| 0.2200         | *****              | 0.2100           | 0.7135             |
| 0.2700         | *****              | 0.2700           | 0.7738             |
| 0.3200         | *****              | 0.3100           | 0.8279             |
| 0.3600         | *****              | 0.3700           | 0.8707             |
| 0.4100         | *****              | 0.4200           | 0.9093             |
| 0.5100         | *****              | 0.5300           | 0.9795             |
| 0.7200         | *****              | 0.7300           | 1.0044             |
| 0.9100         | *****              | 0.9400           | 1.0072             |
| 1.1100         | *****              | 1.1500           | 0.9954             |
| 1.3000         | *****              | 1.3500           | 0.9943             |
| 1.5300         | *****              | 1.5500           | 1.0044             |
| 1.7400         | *****              | 1.7500           | 1.0019             |
| 1.9400         | *****              | 1.9500           | 1.0040             |
| 2.1400         | *****              | 2.1600           | 1.0031             |
| 2.3500         | *****              | 2.3700           | 1.0020             |
| 2.5500         | *****              | 2.5800           | 1.0038             |

\*\*\*\*\* - no data

Flight 31 Test point 22

Sweep, deg = 34.9 Mach = 0.75 hp, ft = 35000. Angle of attack, deg = 3.8  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 196.1 Rnpu = 1850000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7380                                 | 0.1970                                  | 0.0962                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5206 |
| 0.0500         | *****  | 0.0700           | 0.5518 |
| 0.1100         | *****  | 0.1200           | 0.6111 |
| 0.1700         | *****  | 0.1800           | 0.6528 |
| 0.2200         | *****  | 0.2100           | 0.6800 |
| 0.2700         | *****  | 0.2700           | 0.7274 |
| 0.3200         | *****  | 0.3100           | 0.7654 |
| 0.3600         | *****  | 0.3700           | 0.8000 |
| 0.4100         | *****  | 0.4200           | 0.8357 |
| 0.5100         | *****  | 0.5300           | 0.9086 |
| 0.7200         | *****  | 0.7300           | 0.9969 |
| 0.9100         | *****  | 0.9400           | 1.0052 |
| 1.1100         | *****  | 1.1500           | 0.9953 |
| 1.3000         | *****  | 1.3500           | 0.9916 |
| 1.5300         | *****  | 1.5500           | 1.0018 |
| 1.7400         | *****  | 1.7500           | 0.9998 |
| 1.9400         | *****  | 1.9500           | 1.0053 |
| 2.1400         | *****  | 2.1600           | 1.0034 |
| 2.3500         | *****  | 2.3700           | 0.9991 |
| 2.5500         | *****  | 2.5800           | 1.0015 |

\*\*\*\*\* - no data

Flight 31 Test point 23

Sweep, deg = 34.9 Mach = 0.76 hp, ft = 35100. Angle of attack, deg = -0.1  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 198.0 Rrho = 1857000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5543                                 | 0.1365                                  | 0.0667                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5692 |
| 0.0500         | *****  | 0.0700           | 0.6082 |
| 0.1100         | *****  | 0.1200           | 0.6758 |
| 0.1700         | *****  | 0.1800           | 0.7244 |
| 0.2200         | *****  | 0.2100           | 0.7678 |
| 0.2700         | *****  | 0.2700           | 0.8169 |
| 0.3200         | *****  | 0.3100           | 0.8657 |
| 0.3600         | *****  | 0.3700           | 0.8978 |
| 0.4100         | *****  | 0.4200           | 0.9352 |
| 0.5100         | *****  | 0.5300           | 0.9893 |
| 0.7200         | *****  | 0.7300           | 1.0028 |
| 0.9100         | *****  | 0.9400           | 1.0044 |
| 1.1100         | *****  | 1.1500           | 0.9962 |
| 1.3000         | *****  | 1.3500           | 0.9926 |
| 1.5300         | *****  | 1.5500           | 1.0042 |
| 1.7400         | *****  | 1.7500           | 1.0024 |
| 1.9400         | *****  | 1.9500           | 1.0015 |
| 2.1400         | *****  | 2.1600           | 1.0039 |
| 2.3500         | *****  | 2.3700           | 0.9994 |
| 2.5500         | *****  | 2.5800           | 1.0033 |

\*\*\*\*\* - no data

Flight 31 Test point 24

Sweep, deg = 34.8 Mach = 0.80 hp, ft = 34900. Angle of attack, deg = 3.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 221.2 Rnpu = 1965000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.8417                                 | 0.2283                                  | 0.1052                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4721 |
| 0.0500         | *****  | 0.0700           | 0.4934 |
| 0.1100         | *****  | 0.1200           | 0.5546 |
| 0.1700         | *****  | 0.1800           | 0.5910 |
| 0.2200         | *****  | 0.2100           | 0.6158 |
| 0.2700         | *****  | 0.2700           | 0.6716 |
| 0.3200         | *****  | 0.3100           | 0.7138 |
| 0.3600         | *****  | 0.3700           | 0.7519 |
| 0.4100         | *****  | 0.4200           | 0.7983 |
| 0.5100         | *****  | 0.5300           | 0.8867 |
| 0.7200         | *****  | 0.7300           | 0.9945 |
| 0.9100         | *****  | 0.9400           | 1.0043 |
| 1.1100         | *****  | 1.1500           | 0.9975 |
| 1.3000         | *****  | 1.3500           | 0.9940 |
| 1.5300         | *****  | 1.5500           | 1.0038 |
| 1.7400         | *****  | 1.7500           | 1.0006 |
| 1.9400         | *****  | 1.9500           | 1.0019 |
| 2.1400         | *****  | 2.1600           | 0.9994 |
| 2.3500         | *****  | 2.3700           | 0.9983 |
| 2.5500         | *****  | 2.5800           | 1.0002 |

\*\*\*\*\* - no data

Flight 31 Test point 25

Sweep, deg = 34.9 Mach = 0.81 hp, ft = 35300. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 224.0 Rrho = 1958000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7125                        | 0.1693                         | 0.0794                     | 0.1 x/c             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.5098             |
| 0.0500         | *****              | 0.0700           | 0.5470             |
| 0.1100         | *****              | 0.1200           | 0.6110             |
| 0.1700         | *****              | 0.1800           | 0.6630             |
| 0.2200         | *****              | 0.2100           | 0.7015             |
| 0.2700         | *****              | 0.2700           | 0.7623             |
| 0.3200         | *****              | 0.3100           | 0.8116             |
| 0.3600         | *****              | 0.3700           | 0.8551             |
| 0.4100         | *****              | 0.4200           | 0.8994             |
| 0.5100         | *****              | 0.5300           | 0.9735             |
| 0.7200         | *****              | 0.7300           | 1.0022             |
| 0.9100         | *****              | 0.9400           | 1.0032             |
| 1.1100         | *****              | 1.1500           | 0.9961             |
| 1.3000         | *****              | 1.3500           | 0.9900             |
| 1.5300         | *****              | 1.5500           | 1.0023             |
| 1.7400         | *****              | 1.7500           | 1.0010             |
| 1.9400         | *****              | 1.9500           | 1.0039             |
| 2.1400         | *****              | 2.1600           | 1.0003             |
| 2.3500         | *****              | 2.3700           | 0.9987             |
| 2.5500         | *****              | 2.5800           | 1.0023             |

\*\*\*\*\* - no data

Flight 31 Test point 26

Sweep, deg = 30.3 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 223.0 Rnpu = 1956000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7222                                 | 0.2912                                  | 0.1004                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.1974 |
| 0.0500         | *****  | 0.0700           | 0.2514 |
| 0.1100         | *****  | 0.1200           | 0.3443 |
| 0.1700         | *****  | 0.1800           | 0.3991 |
| 0.2200         | *****  | 0.2100           | 0.4347 |
| 0.2700         | *****  | 0.2700           | 0.5196 |
| 0.3200         | *****  | 0.3100           | 0.6022 |
| 0.3600         | *****  | 0.3700           | 0.6796 |
| 0.4100         | *****  | 0.4200           | 0.7587 |
| 0.5100         | *****  | 0.5300           | 0.8994 |
| 0.7200         | *****  | 0.7300           | 1.0037 |
| 0.9100         | *****  | 0.9400           | 1.0066 |
| 1.1100         | *****  | 1.1500           | 0.9980 |
| 1.3000         | *****  | 1.3500           | 0.9942 |
| 1.5300         | *****  | 1.5500           | 1.0026 |
| 1.7400         | *****  | 1.7500           | 1.0021 |
| 1.9400         | *****  | 1.9500           | 1.0035 |
| 2.1400         | *****  | 2.1600           | 0.9979 |
| 2.3500         | *****  | 2.3700           | 0.9971 |
| 2.5500         | *****  | 2.5800           | 0.9980 |

\*\*\*\*\* - no data

Flight 31 Test point 27

Sweep, deg = 30.4 Mach = 0.81 hp, ft = 35200. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 224.0 Rrho = 1962000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7142                        | 0.2168                         | 0.0905                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3564 |
| 0.0500         | *****  | 0.0700           | 0.4201 |
| 0.1100         | *****  | 0.1200           | 0.4966 |
| 0.1700         | *****  | 0.1800           | 0.5543 |
| 0.2200         | *****  | 0.2100           | 0.5905 |
| 0.2700         | *****  | 0.2700           | 0.6650 |
| 0.3200         | *****  | 0.3100           | 0.7358 |
| 0.3600         | *****  | 0.3700           | 0.7924 |
| 0.4100         | *****  | 0.4200           | 0.8525 |
| 0.5100         | *****  | 0.5300           | 0.9587 |
| 0.7200         | *****  | 0.7300           | 1.0031 |
| 0.9100         | *****  | 0.9400           | 1.0066 |
| 1.1100         | *****  | 1.1500           | 0.9978 |
| 1.3000         | *****  | 1.3500           | 0.9937 |
| 1.5300         | *****  | 1.5500           | 1.0025 |
| 1.7400         | *****  | 1.7500           | 0.9988 |
| 1.9400         | *****  | 1.9500           | 1.0010 |
| 2.1400         | *****  | 2.1600           | 0.9992 |
| 2.3500         | *****  | 2.3700           | 0.9990 |
| 2.5500         | *****  | 2.5800           | 0.9983 |

\*\*\*\*\* - no data

Flight 31 Test point 28

Sweep, deg = 25.1 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 225.0 Rrho = 1974000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.9350                                 | 0.4971                                  | 0.1028                              | 0.1 x/c                     |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.0979             |
| 0.0500         | *****              | 0.0700           | 0.1026             |
| 0.1100         | *****              | 0.1200           | 0.0340             |
| 0.1700         | *****              | 0.1800           | 0.1340             |
| 0.2200         | *****              | 0.2100           | 0.2053             |
| 0.2700         | *****              | 0.2700           | 0.0759             |
| 0.3200         | *****              | 0.3100           | 0.2355             |
| 0.3600         | *****              | 0.3700           | 0.3135             |
| 0.4100         | *****              | 0.4200           | 0.4064             |
| 0.5100         | *****              | 0.5300           | 0.5939             |
| 0.7200         | *****              | 0.7300           | 0.9132             |
| 0.9100         | *****              | 0.9400           | 1.0019             |
| 1.1100         | *****              | 1.1500           | 0.9963             |
| 1.3000         | *****              | 1.3500           | 0.9955             |
| 1.5300         | *****              | 1.5500           | 1.0010             |
| 1.7400         | *****              | 1.7500           | 1.0018             |
| 1.9400         | *****              | 1.9500           | 1.0028             |
| 2.1400         | *****              | 2.1600           | 1.0006             |
| 2.3500         | *****              | 2.3700           | 0.9993             |
| 2.5500         | *****              | 2.5800           | 1.0008             |

\*\*\*\*\* - no data



Flight 31 Test point 29

Sweep, deg = 24.9 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 224.5 Rrho = 1994000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7193                                 | 0.2643                                  | 0.0859                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3700 |
| 0.0500         | *****  | 0.0700           | 0.3039 |
| 0.1100         | *****  | 0.1200           | 0.2274 |
| 0.1700         | *****  | 0.1800           | 0.4020 |
| 0.2200         | *****  | 0.2100           | 0.4943 |
| 0.2700         | *****  | 0.2700           | 0.6123 |
| 0.3200         | *****  | 0.3100           | 0.6986 |
| 0.3600         | *****  | 0.3700           | 0.7716 |
| 0.4100         | *****  | 0.4200           | 0.8381 |
| 0.5100         | *****  | 0.5300           | 0.9453 |
| 0.7200         | *****  | 0.7300           | 1.0027 |
| 0.9100         | *****  | 0.9400           | 1.0029 |
| 1.1100         | *****  | 1.1500           | 0.9987 |
| 1.3000         | *****  | 1.3500           | 0.9951 |
| 1.5300         | *****  | 1.5500           | 1.0022 |
| 1.7400         | *****  | 1.7500           | 1.0003 |
| 1.9400         | *****  | 1.9500           | 1.0029 |
| 2.1400         | *****  | 2.1600           | 1.0008 |
| 2.3500         | *****  | 2.3700           | 0.9967 |
| 2.5500         | *****  | 2.5800           | 0.9977 |

\*\*\*\*\* - no data

Flight 31 Test point 30

Sweep, deg = 24.9 Mach = 0.80 hp, ft = 35100. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 223.3 Rrho = 1986000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7555                        | 0.3544                         | 0.0944                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.0989 |
| 0.0500         | *****  | 0.0700           | 0.0620 |
| 0.1100         | *****  | 0.1200           | 0.2180 |
| 0.1700         | *****  | 0.1800           | 0.2483 |
| 0.2200         | *****  | 0.2100           | 0.3011 |
| 0.2700         | *****  | 0.2700           | 0.4151 |
| 0.3200         | *****  | 0.3100           | 0.5074 |
| 0.3600         | *****  | 0.3700           | 0.5897 |
| 0.4100         | *****  | 0.4200           | 0.6792 |
| 0.5100         | *****  | 0.5300           | 0.8477 |
| 0.7200         | *****  | 0.7300           | 0.9995 |
| 0.9100         | *****  | 0.9400           | 1.0031 |
| 1.1100         | *****  | 1.1500           | 0.9976 |
| 1.3000         | *****  | 1.3500           | 0.9949 |
| 1.5300         | *****  | 1.5500           | 1.0027 |
| 1.7400         | *****  | 1.7500           | 1.0015 |
| 1.9400         | *****  | 1.9500           | 1.0032 |
| 2.1400         | *****  | 2.1600           | 1.0008 |
| 2.3500         | *****  | 2.3700           | 0.9989 |
| 2.5500         | *****  | 2.5800           | 0.9973 |

\*\*\*\*\* - no data

Flight 31 Test point 31

Sweep, deg = 20.1 Mach = 0.81 hp, ft = 35000. Angle of attack, deg = 2.7  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 228.3 Rnpu = 2020000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 1.4335                                 | 0.7161                                  | 0.1781                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.1965 |
| 0.0500         | *****  | 0.0700           | 0.2304 |
| 0.1100         | *****  | 0.1200           | 0.1928 |
| 0.1700         | *****  | 0.1800           | 0.2566 |
| 0.2200         | *****  | 0.2100           | 0.3048 |
| 0.2700         | *****  | 0.2700           | 0.2922 |
| 0.3200         | *****  | 0.3100           | 0.2957 |
| 0.3600         | *****  | 0.3700           | 0.3079 |
| 0.4100         | *****  | 0.4200           | 0.2670 |
| 0.5100         | *****  | 0.5300           | 0.0982 |
| 0.7200         | *****  | 0.7300           | 0.5046 |
| 0.9100         | *****  | 0.9400           | 0.7808 |
| 1.1100         | *****  | 1.1500           | 0.9298 |
| 1.3000         | *****  | 1.3500           | 0.9804 |
| 1.5300         | *****  | 1.5500           | 1.0023 |
| 1.7400         | *****  | 1.7500           | 1.0011 |
| 1.9400         | *****  | 1.9500           | 1.0064 |
| 2.1400         | *****  | 2.1600           | 1.0056 |
| 2.3500         | *****  | 2.3700           | 1.0003 |
| 2.5500         | *****  | 2.5800           | 1.0039 |

\*\*\*\*\* - no data

Flight 31 Test point 32

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 35200. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 220.9 Rrho = 1979000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7239                                 | 0.2695                                  | 0.0905                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5466 |
| 0.0500         | *****  | 0.0700           | 0.5007 |
| 0.1100         | *****  | 0.1200           | 0.2732 |
| 0.1700         | *****  | 0.1800           | 0.2325 |
| 0.2200         | *****  | 0.2100           | 0.4064 |
| 0.2700         | *****  | 0.2700           | 0.5562 |
| 0.3200         | *****  | 0.3100           | 0.6594 |
| 0.3600         | *****  | 0.3700           | 0.7387 |
| 0.4100         | *****  | 0.4200           | 0.8168 |
| 0.5100         | *****  | 0.5300           | 0.9358 |
| 0.7200         | *****  | 0.7300           | 1.0018 |
| 0.9100         | *****  | 0.9400           | 1.0029 |
| 1.1100         | *****  | 1.1500           | 0.9960 |
| 1.3000         | *****  | 1.3500           | 0.9958 |
| 1.5300         | *****  | 1.5500           | 1.0010 |
| 1.7400         | *****  | 1.7500           | 1.0000 |
| 1.9400         | *****  | 1.9500           | 1.0031 |
| 2.1400         | *****  | 2.1600           | 1.0008 |
| 2.3500         | *****  | 2.3700           | 1.0000 |
| 2.5500         | *****  | 2.5800           | 0.9986 |

\*\*\*\*\* - no data

Flight 31 Test point 33

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 35300. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 218.4 Rrho = 1968000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7264                                 | 0.3042                                  | 0.0912                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4648 |
| 0.0500         | *****  | 0.0700           | 0.4596 |
| 0.1100         | *****  | 0.1200           | 0.2807 |
| 0.1700         | *****  | 0.1800           | 0.0657 |
| 0.2200         | *****  | 0.2100           | 0.3084 |
| 0.2700         | *****  | 0.2700           | 0.4827 |
| 0.3200         | *****  | 0.3100           | 0.5942 |
| 0.3600         | *****  | 0.3700           | 0.6872 |
| 0.4100         | *****  | 0.4200           | 0.7698 |
| 0.5100         | *****  | 0.5300           | 0.9085 |
| 0.7200         | *****  | 0.7300           | 1.0015 |
| 0.9100         | *****  | 0.9400           | 1.0033 |
| 1.1100         | *****  | 1.1500           | 0.9972 |
| 1.3000         | *****  | 1.3500           | 0.9968 |
| 1.5300         | *****  | 1.5500           | 1.0025 |
| 1.7400         | *****  | 1.7500           | 1.0012 |
| 1.9400         | *****  | 1.9500           | 1.0035 |
| 2.1400         | *****  | 2.1600           | 1.0008 |
| 2.3500         | *****  | 2.3700           | 0.9962 |
| 2.5500         | *****  | 2.5800           | 0.9970 |

\*\*\*\*\* - no data

Flight 31 Test point 34

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 30000. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 280.9 Rrho = 2421000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7223                                 | 0.2872                                  | 0.0908                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4869 |
| 0.0500         | *****  | 0.0700           | 0.4634 |
| 0.1100         | *****  | 0.1200           | 0.2797 |
| 0.1700         | *****  | 0.1800           | 0.1635 |
| 0.2200         | *****  | 0.2100           | 0.3603 |
| 0.2700         | *****  | 0.2700           | 0.5098 |
| 0.3200         | *****  | 0.3100           | 0.6209 |
| 0.3600         | *****  | 0.3700           | 0.7126 |
| 0.4100         | *****  | 0.4200           | 0.7970 |
| 0.5100         | *****  | 0.5300           | 0.9269 |
| 0.7200         | *****  | 0.7300           | 1.0026 |
| 0.9100         | *****  | 0.9400           | 1.0027 |
| 1.1100         | *****  | 1.1500           | 0.9989 |
| 1.3000         | *****  | 1.3500           | 0.9981 |
| 1.5300         | *****  | 1.5500           | 1.0020 |
| 1.7400         | *****  | 1.7500           | 1.0016 |
| 1.9400         | *****  | 1.9500           | 1.0032 |
| 2.1400         | *****  | 2.1600           | 1.0010 |
| 2.3500         | *****  | 2.3700           | 0.9943 |
| 2.5500         | *****  | 2.5800           | 0.9957 |

\*\*\*\*\* - no data

Flight 31 Test point 35

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 29900. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 281.9 Rrho = 2426000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7262                                 | 0.2940                                  | 0.0977                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.6265 |
| 0.0500         | *****  | 0.0700           | 0.6298 |
| 0.1100         | *****  | 0.1200           | 0.4738 |
| 0.1700         | *****  | 0.1800           | 0.3646 |
| 0.2200         | *****  | 0.2100           | 0.1222 |
| 0.2700         | *****  | 0.2700           | 0.3820 |
| 0.3200         | *****  | 0.3100           | 0.5343 |
| 0.3600         | *****  | 0.3700           | 0.6450 |
| 0.4100         | *****  | 0.4200           | 0.7406 |
| 0.5100         | *****  | 0.5300           | 0.8973 |
| 0.7200         | *****  | 0.7300           | 1.0018 |
| 0.9100         | *****  | 0.9400           | 1.0030 |
| 1.1100         | *****  | 1.1500           | 0.9987 |
| 1.3000         | *****  | 1.3500           | 0.9986 |
| 1.5300         | *****  | 1.5500           | 1.0016 |
| 1.7400         | *****  | 1.7500           | 1.0013 |
| 1.9400         | *****  | 1.9500           | 1.0019 |
| 2.1400         | *****  | 2.1600           | 1.0018 |
| 2.3500         | *****  | 2.3700           | 0.9967 |
| 2.5500         | *****  | 2.5800           | 0.9963 |

\*\*\*\*\* - no data

Flight 31 Test point 36

Sweep, deg = 20.3 Mach = 0.80 hp, ft = 30100. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 280.5 Rrho = 2417000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.8784                                 | 0.3911                                  | 0.0961                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.1015 |
| 0.0500         | *****  | 0.0700           | 0.1303 |
| 0.1100         | *****  | 0.1200           | 0.1365 |
| 0.1700         | *****  | 0.1800           | 0.1683 |
| 0.2200         | *****  | 0.2100           | 0.2010 |
| 0.2700         | *****  | 0.2700           | 0.3293 |
| 0.3200         | *****  | 0.3100           | 0.4195 |
| 0.3600         | *****  | 0.3700           | 0.5109 |
| 0.4100         | *****  | 0.4200           | 0.6099 |
| 0.5100         | *****  | 0.5300           | 0.7975 |
| 0.7200         | *****  | 0.7300           | 0.9916 |
| 0.9100         | *****  | 0.9400           | 1.0031 |
| 1.1100         | *****  | 1.1500           | 0.9978 |
| 1.3000         | *****  | 1.3500           | 0.9960 |
| 1.5300         | *****  | 1.5500           | 1.0022 |
| 1.7400         | *****  | 1.7500           | 1.0020 |
| 1.9400         | *****  | 1.9500           | 1.0017 |
| 2.1400         | *****  | 2.1600           | 1.0009 |
| 2.3500         | *****  | 2.3700           | 0.9988 |
| 2.5500         | *****  | 2.5800           | 0.9975 |

\*\*\*\*\* - no data



Flight 31 Test point 37

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 30100. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -4.7 QBAR, lb/ft<sup>2</sup> = 282.0 Rrho = 2422000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7270                        | 0.3205                         | 0.0981                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5252 |
| 0.0500         | *****  | 0.0700           | 0.5281 |
| 0.1100         | *****  | 0.1200           | 0.3802 |
| 0.1700         | *****  | 0.1800           | 0.2861 |
| 0.2200         | *****  | 0.2100           | 0.0761 |
| 0.2700         | *****  | 0.2700           | 0.3641 |
| 0.3200         | *****  | 0.3100           | 0.5092 |
| 0.3600         | *****  | 0.3700           | 0.6197 |
| 0.4100         | *****  | 0.4200           | 0.7149 |
| 0.5100         | *****  | 0.5300           | 0.8770 |
| 0.7200         | *****  | 0.7300           | 1.0017 |
| 0.9100         | *****  | 0.9400           | 1.0043 |
| 1.1100         | *****  | 1.1500           | 0.9984 |
| 1.3000         | *****  | 1.3500           | 0.9989 |
| 1.5300         | *****  | 1.5500           | 1.0017 |
| 1.7400         | *****  | 1.7500           | 1.0015 |
| 1.9400         | *****  | 1.9500           | 1.0015 |
| 2.1400         | *****  | 2.1600           | 1.0010 |
| 2.3500         | *****  | 2.3700           | 0.9974 |
| 2.5500         | *****  | 2.5800           | 0.9953 |

\*\*\*\*\* - no data

Flight 31 Test point 38

Sweep, deg = 24.9 Mach = 0.80 hp, ft = 30000. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 282.4 Rrho = 2428000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7234                        | 0.2507                         | 0.0825                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4475 |
| 0.0500         | *****  | 0.0700           | 0.3600 |
| 0.1100         | *****  | 0.1200           | 0.2009 |
| 0.1700         | *****  | 0.1800           | 0.4124 |
| 0.2200         | *****  | 0.2100           | 0.5209 |
| 0.2700         | *****  | 0.2700           | 0.6319 |
| 0.3200         | *****  | 0.3100           | 0.7194 |
| 0.3600         | *****  | 0.3700           | 0.7954 |
| 0.4100         | *****  | 0.4200           | 0.8624 |
| 0.5100         | *****  | 0.5300           | 0.9593 |
| 0.7200         | *****  | 0.7300           | 1.0012 |
| 0.9100         | *****  | 0.9400           | 1.0033 |
| 1.1100         | *****  | 1.1500           | 0.9980 |
| 1.3000         | *****  | 1.3500           | 0.9973 |
| 1.5300         | *****  | 1.5500           | 1.0016 |
| 1.7400         | *****  | 1.7500           | 1.0005 |
| 1.9400         | *****  | 1.9500           | 1.0020 |
| 2.1400         | *****  | 2.1600           | 1.0003 |
| 2.3500         | *****  | 2.3700           | 0.9985 |
| 2.5500         | *****  | 2.5800           | 0.9974 |

\*\*\*\*\* - no data

Flight 31 Test point 39

Sweep, deg = 24.9 Mach = 0.80 hp, ft = 30000. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 279.4 Rrho = 2412000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7268                        | 0.3455                         | 0.0920                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.1106 |
| 0.0500         | *****  | 0.0700           | 0.1274 |
| 0.1100         | *****  | 0.1200           | 0.1821 |
| 0.1700         | *****  | 0.1800           | 0.2500 |
| 0.2200         | *****  | 0.2100           | 0.2951 |
| 0.2700         | *****  | 0.2700           | 0.4128 |
| 0.3200         | *****  | 0.3100           | 0.5186 |
| 0.3600         | *****  | 0.3700           | 0.6119 |
| 0.4100         | *****  | 0.4200           | 0.7061 |
| 0.5100         | *****  | 0.5300           | 0.8698 |
| 0.7200         | *****  | 0.7300           | 1.0020 |
| 0.9100         | *****  | 0.9400           | 1.0044 |
| 1.1100         | *****  | 1.1500           | 0.9999 |
| 1.3000         | *****  | 1.3500           | 0.9968 |
| 1.5300         | *****  | 1.5500           | 1.0026 |
| 1.7400         | *****  | 1.7500           | 1.0024 |
| 1.9400         | *****  | 1.9500           | 1.0021 |
| 2.1400         | *****  | 2.1600           | 1.0004 |
| 2.3500         | *****  | 2.3700           | 0.9968 |
| 2.5500         | *****  | 2.5800           | 0.9946 |

\*\*\*\*\* - no data

Flight 31 Test point 40

Sweep, deg = 24.9 Mach = 0.75 hp, ft = 30000. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 249.7 R<sub>px</sub> = 2267000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7190                        | 0.2005                         | 0.0799                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.1649 |
| 0.0500         | *****  | 0.0700           | 0.3725 |
| 0.1100         | *****  | 0.1200           | 0.5353 |
| 0.1700         | *****  | 0.1800           | 0.6204 |
| 0.2200         | *****  | 0.2100           | 0.6654 |
| 0.2700         | *****  | 0.2700           | 0.7354 |
| 0.3200         | *****  | 0.3100           | 0.7835 |
| 0.3600         | *****  | 0.3700           | 0.8393 |
| 0.4100         | *****  | 0.4200           | 0.8882 |
| 0.5100         | *****  | 0.5300           | 0.9662 |
| 0.7200         | *****  | 0.7300           | 1.0017 |
| 0.9100         | *****  | 0.9400           | 1.0022 |
| 1.1100         | *****  | 1.1500           | 0.9967 |
| 1.3000         | *****  | 1.3500           | 0.9935 |
| 1.5300         | *****  | 1.5500           | 1.0018 |
| 1.7400         | *****  | 1.7500           | 0.9998 |
| 1.9400         | *****  | 1.9500           | 1.0034 |
| 2.1400         | *****  | 2.1600           | 1.0004 |
| 2.3500         | *****  | 2.3700           | 0.9993 |
| 2.5500         | *****  | 2.5800           | 1.0011 |

\*\*\*\*\* - no data

Flight 31 Test point 41

Sweep, deg = 24.9 Mach = 0.76 hp, ft = 30100. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 250.0 Rnpu = 2267000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | *****                      | *****                       | *****                   | none             |
| Outboard station rake | 0.5631                     | 0.1860                      | 0.0748                  | 0.1 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.2193 |
| 0.0500         | *****  | 0.0700           | 0.4006 |
| 0.1100         | *****  | 0.1200           | 0.5563 |
| 0.1700         | *****  | 0.1800           | 0.6351 |
| 0.2200         | *****  | 0.2100           | 0.6819 |
| 0.2700         | *****  | 0.2700           | 0.7536 |
| 0.3200         | *****  | 0.3100           | 0.8077 |
| 0.3600         | *****  | 0.3700           | 0.8575 |
| 0.4100         | *****  | 0.4200           | 0.9058 |
| 0.5100         | *****  | 0.5300           | 0.9798 |
| 0.7200         | *****  | 0.7300           | 1.0038 |
| 0.9100         | *****  | 0.9400           | 1.0052 |
| 1.1100         | *****  | 1.1500           | 0.9990 |
| 1.3000         | *****  | 1.3500           | 0.9955 |
| 1.5300         | *****  | 1.5500           | 1.0015 |
| 1.7400         | *****  | 1.7500           | 1.0010 |
| 1.9400         | *****  | 1.9500           | 1.0059 |
| 2.1400         | *****  | 2.1600           | 1.0029 |
| 2.3500         | *****  | 2.3700           | 1.0014 |
| 2.5500         | *****  | 2.5800           | 1.0041 |

\*\*\*\*\* - no data

Flight 31 Test point 42

Sweep, deg = 20.0 Mach = 0.76 hp, ft = 30000, Angle of attack, deg = 1.2  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 250.1 Rrho = 2269000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7263                                 | 0.2298                                  | 0.0910                              | 0.1 x/c                     |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.5317             |
| 0.0500         | *****              | 0.0700           | 0.3698             |
| 0.1100         | *****              | 0.1200           | 0.2971             |
| 0.1700         | *****              | 0.1800           | 0.4817             |
| 0.2200         | *****              | 0.2100           | 0.5663             |
| 0.2700         | *****              | 0.2700           | 0.6560             |
| 0.3200         | *****              | 0.3100           | 0.7322             |
| 0.3600         | *****              | 0.3700           | 0.7888             |
| 0.4100         | *****              | 0.4200           | 0.8487             |
| 0.5100         | *****              | 0.5300           | 0.9487             |
| 0.7200         | *****              | 0.7300           | 1.0008             |
| 0.9100         | *****              | 0.9400           | 1.0034             |
| 1.1100         | *****              | 1.1500           | 0.9965             |
| 1.3000         | *****              | 1.3500           | 0.9943             |
| 1.5300         | *****              | 1.5500           | 0.9993             |
| 1.7400         | *****              | 1.7500           | 1.0002             |
| 1.9400         | *****              | 1.9500           | 1.0023             |
| 2.1400         | *****              | 2.1600           | 1.0018             |
| 2.3500         | *****              | 2.3700           | 1.0006             |
| 2.5500         | *****              | 2.5800           | 1.0007             |

\*\*\*\*\* - no data

Flight 31 Test point 43

Sweep, deg = 20.1 Mach = 0.75 hp, ft = 29900. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 247.2 Rnpu = 2254000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7265                        | 0.2453                         | 0.0956                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.7777 |
| 0.0500         | *****  | 0.0700           | 0.7059 |
| 0.1100         | *****  | 0.1200           | 0.4849 |
| 0.1700         | *****  | 0.1800           | 0.1706 |
| 0.2200         | *****  | 0.2100           | 0.3502 |
| 0.2700         | *****  | 0.2700           | 0.5489 |
| 0.3200         | *****  | 0.3100           | 0.6512 |
| 0.3600         | *****  | 0.3700           | 0.7270 |
| 0.4100         | *****  | 0.4200           | 0.7943 |
| 0.5100         | *****  | 0.5300           | 0.9138 |
| 0.7200         | *****  | 0.7300           | 1.0014 |
| 0.9100         | *****  | 0.9400           | 1.0033 |
| 1.1100         | *****  | 1.1500           | 0.9958 |
| 1.3000         | *****  | 1.3500           | 0.9940 |
| 1.5300         | *****  | 1.5500           | 1.0023 |
| 1.7400         | *****  | 1.7500           | 1.0002 |
| 1.9400         | *****  | 1.9500           | 1.0017 |
| 2.1400         | *****  | 2.1600           | 1.0007 |
| 2.3500         | *****  | 2.3700           | 0.9999 |
| 2.5500         | *****  | 2.5800           | 1.0008 |

\*\*\*\*\* - no data

Flight 31 Test point 44

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 30100. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 247.4 Rho = 2255000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7182                                 | 0.2102                                  | 0.0840                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5008 |
| 0.0500         | *****  | 0.0700           | 0.2729 |
| 0.1100         | *****  | 0.1200           | 0.3926 |
| 0.1700         | *****  | 0.1800           | 0.5465 |
| 0.2200         | *****  | 0.2100           | 0.6197 |
| 0.2700         | *****  | 0.2700           | 0.7038 |
| 0.3200         | *****  | 0.3100           | 0.7708 |
| 0.3600         | *****  | 0.3700           | 0.8265 |
| 0.4100         | *****  | 0.4200           | 0.8801 |
| 0.5100         | *****  | 0.5300           | 0.9679 |
| 0.7200         | *****  | 0.7300           | 1.0017 |
| 0.9100         | *****  | 0.9400           | 1.0035 |
| 1.1100         | *****  | 1.1500           | 0.9950 |
| 1.3000         | *****  | 1.3500           | 0.9936 |
| 1.5300         | *****  | 1.5500           | 0.9998 |
| 1.7400         | *****  | 1.7500           | 0.9999 |
| 1.9400         | *****  | 1.9500           | 1.0035 |
| 2.1400         | *****  | 2.1600           | 1.0018 |
| 2.3500         | *****  | 2.3700           | 0.9979 |
| 2.5500         | *****  | 2.5800           | 1.0034 |

\*\*\*\*\* - no data



Flight 31 Test point 45

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 29800. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 251.8 Rrho = 2278000.

|                       |                               |                                |                            |                     |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7326                        | 0.2249                         | 0.0907                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.7467 |
| 0.0500         | *****  | 0.0700           | 0.6380 |
| 0.1100         | *****  | 0.1200           | 0.3591 |
| 0.1700         | *****  | 0.1800           | 0.2987 |
| 0.2200         | *****  | 0.2100           | 0.4781 |
| 0.2700         | *****  | 0.2700           | 0.6174 |
| 0.3200         | *****  | 0.3100           | 0.7124 |
| 0.3600         | *****  | 0.3700           | 0.7802 |
| 0.4100         | *****  | 0.4200           | 0.8425 |
| 0.5100         | *****  | 0.5300           | 0.9475 |
| 0.7200         | *****  | 0.7300           | 0.9994 |
| 0.9100         | *****  | 0.9400           | 1.0046 |
| 1.1100         | *****  | 1.1500           | 0.9943 |
| 1.3000         | *****  | 1.3500           | 0.9958 |
| 1.5300         | *****  | 1.5500           | 1.0004 |
| 1.7400         | *****  | 1.7500           | 0.9994 |
| 1.9400         | *****  | 1.9500           | 1.0030 |
| 2.1400         | *****  | 2.1600           | 1.0010 |
| 2.3500         | *****  | 2.3700           | 0.9993 |
| 2.5500         | *****  | 2.5800           | 1.0029 |

\*\*\*\*\* - no data

Flight 31 Test point 46

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 272.0 RhoU = 2529000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5661                                 | 0.1902                                  | 0.0764                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4781 |
| 0.0500         | *****  | 0.0700           | 0.2165 |
| 0.1100         | *****  | 0.1200           | 0.4750 |
| 0.1700         | *****  | 0.1800           | 0.6098 |
| 0.2200         | *****  | 0.2100           | 0.6668 |
| 0.2700         | *****  | 0.2700           | 0.7471 |
| 0.3200         | *****  | 0.3100           | 0.8077 |
| 0.3600         | *****  | 0.3700           | 0.8550 |
| 0.4100         | *****  | 0.4200           | 0.9009 |
| 0.5100         | *****  | 0.5300           | 0.9773 |
| 0.7200         | *****  | 0.7300           | 1.0022 |
| 0.9100         | *****  | 0.9400           | 1.0031 |
| 1.1100         | *****  | 1.1500           | 0.9968 |
| 1.3000         | *****  | 1.3500           | 0.9932 |
| 1.5300         | *****  | 1.5500           | 1.0011 |
| 1.7400         | *****  | 1.7500           | 0.9966 |
| 1.9400         | *****  | 1.9500           | 1.0033 |
| 2.1400         | *****  | 2.1600           | 0.9997 |
| 2.3500         | *****  | 2.3700           | 1.0028 |
| 2.5500         | *****  | 2.5800           | 1.0012 |

\*\*\*\*\* - no data

Flight 31 Test point 47

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 270.8 Rrho = 2522000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7360                        | 0.2098                         | 0.0833                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.7422 |
| 0.0500         | *****  | 0.0700           | 0.5955 |
| 0.1100         | *****  | 0.1200           | 0.1974 |
| 0.1700         | *****  | 0.1800           | 0.4259 |
| 0.2200         | *****  | 0.2100           | 0.5618 |
| 0.2700         | *****  | 0.2700           | 0.6797 |
| 0.3200         | *****  | 0.3100           | 0.7602 |
| 0.3600         | *****  | 0.3700           | 0.8232 |
| 0.4100         | *****  | 0.4200           | 0.8749 |
| 0.5100         | *****  | 0.5300           | 0.9601 |
| 0.7200         | *****  | 0.7300           | 0.9990 |
| 0.9100         | *****  | 0.9400           | 1.0039 |
| 1.1100         | *****  | 1.1500           | 0.9966 |
| 1.3000         | *****  | 1.3500           | 0.9946 |
| 1.5300         | *****  | 1.5500           | 1.0010 |
| 1.7400         | *****  | 1.7500           | 1.0002 |
| 1.9400         | *****  | 1.9500           | 1.0031 |
| 2.1400         | *****  | 2.1600           | 0.9996 |
| 2.3500         | *****  | 2.3700           | 1.0006 |
| 2.5500         | *****  | 2.5800           | 1.0013 |

\*\*\*\*\* - no data

Flight 31 Test point 48

Sweep, deg = 20.0 Mach = 0.69 hp, ft = 25000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 263.4 Rrho = 2488000.

|                       |                               |                                |                            |                     |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5581                        | 0.1779                         | 0.0716                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3563 |
| 0.0500         | *****  | 0.0700           | 0.2543 |
| 0.1100         | *****  | 0.1200           | 0.5335 |
| 0.1700         | *****  | 0.1800           | 0.6483 |
| 0.2200         | *****  | 0.2100           | 0.7047 |
| 0.2700         | *****  | 0.2700           | 0.7775 |
| 0.3200         | *****  | 0.3100           | 0.8331 |
| 0.3600         | *****  | 0.3700           | 0.8796 |
| 0.4100         | *****  | 0.4200           | 0.9217 |
| 0.5100         | *****  | 0.5300           | 0.9853 |
| 0.7200         | *****  | 0.7300           | 1.0031 |
| 0.9100         | *****  | 0.9400           | 1.0059 |
| 1.1100         | *****  | 1.1500           | 0.9966 |
| 1.3000         | *****  | 1.3500           | 0.9953 |
| 1.5300         | *****  | 1.5500           | 1.0030 |
| 1.7400         | *****  | 1.7500           | 1.0012 |
| 1.9400         | *****  | 1.9500           | 1.0023 |
| 2.1400         | *****  | 2.1600           | 1.0018 |
| 2.3500         | *****  | 2.3700           | 1.0021 |
| 2.5500         | *****  | 2.5800           | 1.0034 |

\*\*\*\*\* - no data

Flight 31 Test point 49

Sweep, deg = 20.0 Mach = 0.71 hp, ft = 25100. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -5.2 QBAR, lb/ft<sup>2</sup> = 272.6 Rnpu = 2527000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7363                        | 0.2062                         | 0.0784                     | 0.1 x/c             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.7372             |
| 0.0500         | *****              | 0.0700           | 0.5813             |
| 0.1100         | *****              | 0.1200           | 0.1265             |
| 0.1700         | *****              | 0.1800           | 0.4578             |
| 0.2200         | *****              | 0.2100           | 0.5840             |
| 0.2700         | *****              | 0.2700           | 0.6934             |
| 0.3200         | *****              | 0.3100           | 0.7739             |
| 0.3600         | *****              | 0.3700           | 0.8342             |
| 0.4100         | *****              | 0.4200           | 0.8883             |
| 0.5100         | *****              | 0.5300           | 0.9687             |
| 0.7200         | *****              | 0.7300           | 0.9992             |
| 0.9100         | *****              | 0.9400           | 1.0023             |
| 1.1100         | *****              | 1.1500           | 0.9954             |
| 1.3000         | *****              | 1.3500           | 0.9944             |
| 1.5300         | *****              | 1.5500           | 1.0005             |
| 1.7400         | *****              | 1.7500           | 1.0002             |
| 1.9400         | *****              | 1.9500           | 1.0032             |
| 2.1400         | *****              | 2.1600           | 1.0023             |
| 2.3500         | *****              | 2.3700           | 1.0008             |
| 2.5500         | *****              | 2.5800           | 1.0018             |

\*\*\*\*\* - no data

Flight 31 Test point 50

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = -0.2  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 436.2 Rrho = 3480000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7191                                 | 0.2464                                  | 0.0855                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5771 |
| 0.0500         | *****  | 0.0700           | 0.5306 |
| 0.1100         | *****  | 0.1200           | 0.3050 |
| 0.1700         | *****  | 0.1800           | 0.2609 |
| 0.2200         | *****  | 0.2100           | 0.4427 |
| 0.2700         | *****  | 0.2700           | 0.5913 |
| 0.3200         | *****  | 0.3100           | 0.6917 |
| 0.3600         | *****  | 0.3700           | 0.7808 |
| 0.4100         | *****  | 0.4200           | 0.8549 |
| 0.5100         | *****  | 0.5300           | 0.9627 |
| 0.7200         | *****  | 0.7300           | 1.0019 |
| 0.9100         | *****  | 0.9400           | 1.0018 |
| 1.1100         | *****  | 1.1500           | 0.9987 |
| 1.3000         | *****  | 1.3500           | 0.9982 |
| 1.5300         | *****  | 1.5500           | 1.0010 |
| 1.7400         | *****  | 1.7500           | 1.0005 |
| 1.9400         | *****  | 1.9500           | 1.0017 |
| 2.1400         | *****  | 2.1600           | 1.0010 |
| 2.3500         | *****  | 2.3700           | 0.9979 |
| 2.5500         | *****  | 2.5800           | 0.9974 |

\*\*\*\*\* - no data

Flight 31 Test point 51

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 19900. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 435.1 Rrho = 3470000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7276                                 | 0.2555                                  | 0.0924                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.6827 |
| 0.0500         | *****  | 0.0700           | 0.6669 |
| 0.1100         | *****  | 0.1200           | 0.5147 |
| 0.1700         | *****  | 0.1800           | 0.3276 |
| 0.2200         | *****  | 0.2100           | 0.2203 |
| 0.2700         | *****  | 0.2700           | 0.4763 |
| 0.3200         | *****  | 0.3100           | 0.6111 |
| 0.3600         | *****  | 0.3700           | 0.7178 |
| 0.4100         | *****  | 0.4200           | 0.8025 |
| 0.5100         | *****  | 0.5300           | 0.9409 |
| 0.7200         | *****  | 0.7300           | 1.0006 |
| 0.9100         | *****  | 0.9400           | 1.0022 |
| 1.1100         | *****  | 1.1500           | 0.9981 |
| 1.3000         | *****  | 1.3500           | 0.9976 |
| 1.5300         | *****  | 1.5500           | 1.0008 |
| 1.7400         | *****  | 1.7500           | 1.0000 |
| 1.9400         | *****  | 1.9500           | 1.0013 |
| 2.1400         | *****  | 2.1600           | 1.0005 |
| 2.3500         | *****  | 2.3700           | 0.9995 |
| 2.5500         | *****  | 2.5800           | 0.9994 |

\*\*\*\*\* - no data

Flight 31 Test point 52

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 430.3 Rrho = 3450000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7222                        | 0.2566                         | 0.0877                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5632 |
| 0.0500         | *****  | 0.0700           | 0.5195 |
| 0.1100         | *****  | 0.1200           | 0.3180 |
| 0.1700         | *****  | 0.1800           | 0.2303 |
| 0.2200         | *****  | 0.2100           | 0.4217 |
| 0.2700         | *****  | 0.2700           | 0.5713 |
| 0.3200         | *****  | 0.3100           | 0.6711 |
| 0.3600         | *****  | 0.3700           | 0.7622 |
| 0.4100         | *****  | 0.4200           | 0.8376 |
| 0.5100         | *****  | 0.5300           | 0.9535 |
| 0.7200         | *****  | 0.7300           | 1.0017 |
| 0.9100         | *****  | 0.9400           | 1.0030 |
| 1.1100         | *****  | 1.1500           | 0.9991 |
| 1.3000         | *****  | 1.3500           | 0.9984 |
| 1.5300         | *****  | 1.5500           | 1.0014 |
| 1.7400         | *****  | 1.7500           | 1.0011 |
| 1.9400         | *****  | 1.9500           | 1.0013 |
| 2.1400         | *****  | 2.1600           | 1.0003 |
| 2.3500         | *****  | 2.3700           | 0.9970 |
| 2.5500         | *****  | 2.5800           | 0.9967 |

\*\*\*\*\* - no data



Flight 31 Test point 53

Sweep, deg = 20.0 Mach = 0.79 hp, ft = 20100. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -4.7 QBAR, lb/ft<sup>2</sup> = 427.5 Rrho = 3442000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7277                        | 0.2796                         | 0.0930                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.6587 |
| 0.0500         | *****  | 0.0700           | 0.6480 |
| 0.1100         | *****  | 0.1200           | 0.5077 |
| 0.1700         | *****  | 0.1800           | 0.3641 |
| 0.2200         | *****  | 0.2100           | 0.0676 |
| 0.2700         | *****  | 0.2700           | 0.4175 |
| 0.3200         | *****  | 0.3100           | 0.5637 |
| 0.3600         | *****  | 0.3700           | 0.6787 |
| 0.4100         | *****  | 0.4200           | 0.7698 |
| 0.5100         | *****  | 0.5300           | 0.9172 |
| 0.7200         | *****  | 0.7300           | 1.0009 |
| 0.9100         | *****  | 0.9400           | 1.0018 |
| 1.1100         | *****  | 1.1500           | 0.9993 |
| 1.3000         | *****  | 1.3500           | 0.9986 |
| 1.5300         | *****  | 1.5500           | 1.0009 |
| 1.7400         | *****  | 1.7500           | 1.0011 |
| 1.9400         | *****  | 1.9500           | 1.0015 |
| 2.1400         | *****  | 2.1600           | 1.0006 |
| 2.3500         | *****  | 2.3700           | 0.9986 |
| 2.5500         | *****  | 2.5800           | 0.9968 |

\*\*\*\*\* - no data

Flight 31 Test point 54

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20100. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 436.7 Rrho = 3479000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7205                                 | 0.2620                                  | 0.0875                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5469 |
| 0.0500         | *****  | 0.0700           | 0.5022 |
| 0.1100         | *****  | 0.1200           | 0.3019 |
| 0.1700         | *****  | 0.1800           | 0.2274 |
| 0.2200         | *****  | 0.2100           | 0.4133 |
| 0.2700         | *****  | 0.2700           | 0.5605 |
| 0.3200         | *****  | 0.3100           | 0.6671 |
| 0.3600         | *****  | 0.3700           | 0.7597 |
| 0.4100         | *****  | 0.4200           | 0.8334 |
| 0.5100         | *****  | 0.5300           | 0.9503 |
| 0.7200         | *****  | 0.7300           | 1.0022 |
| 0.9100         | *****  | 0.9400           | 1.0029 |
| 1.1100         | *****  | 1.1500           | 1.0005 |
| 1.3000         | *****  | 1.3500           | 0.9995 |
| 1.5300         | *****  | 1.5500           | 1.0020 |
| 1.7400         | *****  | 1.7500           | 1.0008 |
| 1.9400         | *****  | 1.9500           | 1.0014 |
| 2.1400         | *****  | 2.1600           | 1.0008 |
| 2.3500         | *****  | 2.3700           | 0.9953 |
| 2.5500         | *****  | 2.5800           | 0.9947 |

\*\*\*\*\* - no data

Flight 31 Test point 55

Sweep, deg = 20.0 Mach = 0.81 hp, ft = 19900. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 444.7 Rrho = 3530000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7260                                 | 0.2688                                  | 0.0937                              | 0.1 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.6616 |
| 0.0500         | *****  | 0.0700           | 0.6508 |
| 0.1100         | *****  | 0.1200           | 0.5037 |
| 0.1700         | *****  | 0.1800           | 0.3454 |
| 0.2200         | *****  | 0.2100           | 0.1671 |
| 0.2700         | *****  | 0.2700           | 0.4438 |
| 0.3200         | *****  | 0.3100           | 0.5841 |
| 0.3600         | *****  | 0.3700           | 0.6958 |
| 0.4100         | *****  | 0.4200           | 0.7847 |
| 0.5100         | *****  | 0.5300           | 0.9285 |
| 0.7200         | *****  | 0.7300           | 1.0013 |
| 0.9100         | *****  | 0.9400           | 1.0017 |
| 1.1100         | *****  | 1.1500           | 0.9987 |
| 1.3000         | *****  | 1.3500           | 0.9986 |
| 1.5300         | *****  | 1.5500           | 1.0008 |
| 1.7400         | *****  | 1.7500           | 0.9998 |
| 1.9400         | *****  | 1.9500           | 1.0014 |
| 2.1400         | *****  | 2.1600           | 1.0003 |
| 2.3500         | *****  | 2.3700           | 0.9997 |
| 2.5500         | *****  | 2.5800           | 0.9977 |

\*\*\*\*\* - no data

Flight 31 Test point 56

Sweep, deg = 20.0 Mach = 0.76 hp, ft = 20000. Angle of attack, deg = -0.2  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 387.6 Rrho = 3256000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5594                        | 0.1969                         | 0.0754                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4586 |
| 0.0500         | *****  | 0.0700           | 0.1968 |
| 0.1100         | *****  | 0.1200           | 0.4385 |
| 0.1700         | *****  | 0.1800           | 0.5825 |
| 0.2200         | *****  | 0.2100           | 0.6519 |
| 0.2700         | *****  | 0.2700           | 0.7330 |
| 0.3200         | *****  | 0.3100           | 0.7980 |
| 0.3600         | *****  | 0.3700           | 0.8569 |
| 0.4100         | *****  | 0.4200           | 0.9068 |
| 0.5100         | *****  | 0.5300           | 0.9817 |
| 0.7200         | *****  | 0.7300           | 1.0027 |
| 0.9100         | *****  | 0.9400           | 1.0042 |
| 1.1100         | *****  | 1.1500           | 0.9998 |
| 1.3000         | *****  | 1.3500           | 0.9980 |
| 1.5300         | *****  | 1.5500           | 1.0019 |
| 1.7400         | *****  | 1.7500           | 1.0013 |
| 1.9400         | *****  | 1.9500           | 1.0033 |
| 2.1400         | *****  | 2.1600           | 1.0024 |
| 2.3500         | *****  | 2.3700           | 1.0023 |
| 2.5500         | *****  | 2.5800           | 1.0023 |

\*\*\*\*\* - no data

Flight 31 Test point 57

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 19900. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 378.3 Rnpu = 3212000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7287                        | 0.2083                         | 0.0835                     | 0.1 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.7392 |
| 0.0500         | *****  | 0.0700           | 0.6094 |
| 0.1100         | *****  | 0.1200           | 0.2723 |
| 0.1700         | *****  | 0.1800           | 0.3884 |
| 0.2200         | *****  | 0.2100           | 0.5426 |
| 0.2700         | *****  | 0.2700           | 0.6652 |
| 0.3200         | *****  | 0.3100           | 0.7525 |
| 0.3600         | *****  | 0.3700           | 0.8204 |
| 0.4100         | *****  | 0.4200           | 0.8785 |
| 0.5100         | *****  | 0.5300           | 0.9680 |
| 0.7200         | *****  | 0.7300           | 1.0002 |
| 0.9100         | *****  | 0.9400           | 1.0016 |
| 1.1100         | *****  | 1.1500           | 0.9967 |
| 1.3000         | *****  | 1.3500           | 0.9964 |
| 1.5300         | *****  | 1.5500           | 1.0009 |
| 1.7400         | *****  | 1.7500           | 0.9995 |
| 1.9400         | *****  | 1.9500           | 1.0014 |
| 2.1400         | *****  | 2.1600           | 1.0003 |
| 2.3500         | *****  | 2.3700           | 1.0014 |
| 2.5500         | *****  | 2.5800           | 1.0015 |

\*\*\*\*\* - no data

Flight 32 Test point 1

Sweep, deg = 34.9 Mach = 0.71 hp, ft = 34900. Angle of attack, deg = 5.3  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 173.9 Rrho = 1687000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.8867                                 | 0.2022                                  | 0.1034                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5365 |
| 0.0500         | *****  | 0.0700           | 0.5678 |
| 0.1100         | *****  | 0.1200           | 0.6279 |
| 0.1700         | *****  | 0.1800           | 0.6686 |
| 0.2200         | *****  | 0.2100           | 0.6783 |
| 0.2700         | *****  | 0.2700           | 0.7245 |
| 0.3200         | *****  | 0.3100           | 0.7645 |
| 0.3600         | *****  | 0.3700           | 0.7944 |
| 0.4100         | *****  | 0.4200           | 0.8250 |
| 0.5100         | *****  | 0.5300           | 0.8874 |
| 0.7200         | *****  | 0.7300           | 0.9770 |
| 0.9100         | *****  | 0.9400           | 1.0070 |
| 1.1100         | *****  | 1.1500           | 0.9947 |
| 1.3000         | *****  | 1.3500           | 0.9892 |
| 1.5300         | *****  | 1.5500           | 1.0001 |
| 1.7400         | *****  | 1.7500           | 0.9996 |
| 1.9400         | *****  | 1.9500           | 1.0037 |
| 2.1400         | *****  | 2.1600           | 1.0008 |
| 2.3500         | *****  | 2.3700           | 1.0013 |
| 2.5500         | *****  | 2.5800           | 1.0052 |

\*\*\*\*\* - no data

Flight 32 Test point 2

Sweep, deg = 34.9 Mach = 0.71 hp, ft = 36100. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 164.3 Rrho = 1607000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.3810                                 | 0.0925                                  | 0.0437                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.6264 |
| 0.0500         | *****  | 0.0700           | 0.6692 |
| 0.1100         | *****  | 0.1200           | 0.7461 |
| 0.1700         | *****  | 0.1800           | 0.8087 |
| 0.2200         | *****  | 0.2100           | 0.8548 |
| 0.2700         | *****  | 0.2700           | 0.9124 |
| 0.3200         | *****  | 0.3100           | 0.9611 |
| 0.3600         | *****  | 0.3700           | 0.9838 |
| 0.4100         | *****  | 0.4200           | 0.9991 |
| 0.5100         | *****  | 0.5300           | 1.0012 |
| 0.7200         | *****  | 0.7300           | 1.0028 |
| 0.9100         | *****  | 0.9400           | 1.0052 |
| 1.1100         | *****  | 1.1500           | 0.9939 |
| 1.3000         | *****  | 1.3500           | 0.9912 |
| 1.5300         | *****  | 1.5500           | 1.0030 |
| 1.7400         | *****  | 1.7500           | 1.0023 |
| 1.9400         | *****  | 1.9500           | 1.0080 |
| 2.1400         | *****  | 2.1600           | 0.9978 |
| 2.3500         | *****  | 2.3700           | 1.0014 |
| 2.5500         | *****  | 2.5800           | 1.0072 |

\*\*\*\*\* - no data

Flight 32 Test point 3

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 35400. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 169.2 Rrho = 1656000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.3878                                 | 0.0933                                  | 0.0441                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.6260 |
| 0.0500         | *****  | 0.0700           | 0.6574 |
| 0.1100         | *****  | 0.1200           | 0.7437 |
| 0.1700         | *****  | 0.1800           | 0.8119 |
| 0.2200         | *****  | 0.2100           | 0.8537 |
| 0.2700         | *****  | 0.2700           | 0.9139 |
| 0.3200         | *****  | 0.3100           | 0.9576 |
| 0.3600         | *****  | 0.3700           | 0.9823 |
| 0.4100         | *****  | 0.4200           | 0.9945 |
| 0.5100         | *****  | 0.5300           | 1.0023 |
| 0.7200         | *****  | 0.7300           | 1.0016 |
| 0.9100         | *****  | 0.9400           | 1.0055 |
| 1.1100         | *****  | 1.1500           | 0.9946 |
| 1.3000         | *****  | 1.3500           | 0.9890 |
| 1.5300         | *****  | 1.5500           | 1.0019 |
| 1.7400         | *****  | 1.7500           | 0.9993 |
| 1.9400         | *****  | 1.9500           | 1.0057 |
| 2.1400         | *****  | 2.1600           | 1.0011 |
| 2.3500         | *****  | 2.3700           | 1.0000 |
| 2.5500         | *****  | 2.5800           | 1.0045 |

\*\*\*\*\* - no data



Flight 32 Test point 4

Sweep, deg = 30.5 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 4.6  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 171.0 Rrho = 1672000.

|                       |                               |                                |                            |                     |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7451                        | 0.1930                         | 0.0947                     | 0.3 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4973 |
| 0.0500         | *****  | 0.0700           | 0.5370 |
| 0.1100         | *****  | 0.1200           | 0.6137 |
| 0.1700         | *****  | 0.1800           | 0.6616 |
| 0.2200         | *****  | 0.2100           | 0.6751 |
| 0.2700         | *****  | 0.2700           | 0.7306 |
| 0.3200         | *****  | 0.3100           | 0.7757 |
| 0.3600         | *****  | 0.3700           | 0.8082 |
| 0.4100         | *****  | 0.4200           | 0.8469 |
| 0.5100         | *****  | 0.5300           | 0.9171 |
| 0.7200         | *****  | 0.7300           | 0.9948 |
| 0.9100         | *****  | 0.9400           | 1.0041 |
| 1.1100         | *****  | 1.1500           | 0.9942 |
| 1.3000         | *****  | 1.3500           | 0.9902 |
| 1.5300         | *****  | 1.5500           | 1.0029 |
| 1.7400         | *****  | 1.7500           | 1.0017 |
| 1.9400         | *****  | 1.9500           | 1.0070 |
| 2.1400         | *****  | 2.1600           | 1.0006 |
| 2.3500         | *****  | 2.3700           | 1.0001 |
| 2.5500         | *****  | 2.5800           | 1.0044 |

\*\*\*\*\* - no data

Flight 32 Test point 5

Sweep, deg = 30.5 Mach = 0.69 hp, ft = 34100. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 174.9 Rrho = 1717000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.3821                        | 0.0943                         | 0.0445                     | 0.3 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.6137 |
| 0.0500         | *****  | 0.0700           | 0.6619 |
| 0.1100         | *****  | 0.1200           | 0.7413 |
| 0.1700         | *****  | 0.1800           | 0.8019 |
| 0.2200         | *****  | 0.2100           | 0.8546 |
| 0.2700         | *****  | 0.2700           | 0.9089 |
| 0.3200         | *****  | 0.3100           | 0.9567 |
| 0.3600         | *****  | 0.3700           | 0.9846 |
| 0.4100         | *****  | 0.4200           | 0.9954 |
| 0.5100         | *****  | 0.5300           | 1.0029 |
| 0.7200         | *****  | 0.7300           | 1.0020 |
| 0.9100         | *****  | 0.9400           | 1.0002 |
| 1.1100         | *****  | 1.1500           | 0.9949 |
| 1.3000         | *****  | 1.3500           | 0.9875 |
| 1.5300         | *****  | 1.5500           | 1.0026 |
| 1.7400         | *****  | 1.7500           | 1.0015 |
| 1.9400         | *****  | 1.9500           | 1.0059 |
| 2.1400         | *****  | 2.1600           | 1.0009 |
| 2.3500         | *****  | 2.3700           | 0.9997 |
| 2.5500         | *****  | 2.5800           | 1.0065 |

\*\*\*\*\* - no data

Flight 32 Test point 6

Sweep, deg = 30.4 Mach = 0.70 hp, ft = 34000. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 179.7 Rrho = 1746000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.3843                                 | 0.0985                                  | 0.0460                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.6027 |
| 0.0500         | *****  | 0.0700           | 0.6405 |
| 0.1100         | *****  | 0.1200           | 0.7285 |
| 0.1700         | *****  | 0.1800           | 0.7930 |
| 0.2200         | *****  | 0.2100           | 0.8405 |
| 0.2700         | *****  | 0.2700           | 0.9037 |
| 0.3200         | *****  | 0.3100           | 0.9536 |
| 0.3600         | *****  | 0.3700           | 0.9823 |
| 0.4100         | *****  | 0.4200           | 0.9990 |
| 0.5100         | *****  | 0.5300           | 1.0030 |
| 0.7200         | *****  | 0.7300           | 1.0027 |
| 0.9100         | *****  | 0.9400           | 1.0070 |
| 1.1100         | *****  | 1.1500           | 0.9981 |
| 1.3000         | *****  | 1.3500           | 0.9943 |
| 1.5300         | *****  | 1.5500           | 0.9998 |
| 1.7400         | *****  | 1.7500           | 1.0015 |
| 1.9400         | *****  | 1.9500           | 1.0031 |
| 2.1400         | *****  | 2.1600           | 1.0025 |
| 2.3500         | *****  | 2.3700           | 1.0013 |
| 2.5500         | *****  | 2.5800           | 1.0053 |

\*\*\*\*\* - no data

Flight 32 Test point 7

Sweep, deg = 25.2 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 4.0  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 172.7 Rrho = 1684000.

|                       |                               |                                |                            |                     |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7300                        | 0.2067                         | 0.0872                     | 0.3 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.1895 |
| 0.0500         | *****  | 0.0700           | 0.3914 |
| 0.1100         | *****  | 0.1200           | 0.5494 |
| 0.1700         | *****  | 0.1800           | 0.6308 |
| 0.2200         | *****  | 0.2100           | 0.6654 |
| 0.2700         | *****  | 0.2700           | 0.7280 |
| 0.3200         | *****  | 0.3100           | 0.7771 |
| 0.3600         | *****  | 0.3700           | 0.8195 |
| 0.4100         | *****  | 0.4200           | 0.8616 |
| 0.5100         | *****  | 0.5300           | 0.9401 |
| 0.7200         | *****  | 0.7300           | 1.0000 |
| 0.9100         | *****  | 0.9400           | 1.0030 |
| 1.1100         | *****  | 1.1500           | 0.9961 |
| 1.3000         | *****  | 1.3500           | 0.9916 |
| 1.5300         | *****  | 1.5500           | 1.0014 |
| 1.7400         | *****  | 1.7500           | 1.0022 |
| 1.9400         | *****  | 1.9500           | 1.0029 |
| 2.1400         | *****  | 2.1600           | 0.9998 |
| 2.3500         | *****  | 2.3700           | 1.0009 |
| 2.5500         | *****  | 2.5800           | 1.0021 |

\*\*\*\*\* - no data

Flight 32 Test point 8

Sweep, deg = 25.1 Mach = 0.69 hp, ft = 35300. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.6 QBAR, lb/ft<sup>2</sup> = 162.2 Rrho = 1615000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.4321                                 | 0.1131                                  | 0.0511                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4809 |
| 0.0500         | *****  | 0.0700           | 0.5841 |
| 0.1100         | *****  | 0.1200           | 0.6908 |
| 0.1700         | *****  | 0.1800           | 0.7742 |
| 0.2200         | *****  | 0.2100           | 0.8192 |
| 0.2700         | *****  | 0.2700           | 0.8886 |
| 0.3200         | *****  | 0.3100           | 0.9383 |
| 0.3600         | *****  | 0.3700           | 0.9707 |
| 0.4100         | *****  | 0.4200           | 0.9927 |
| 0.5100         | *****  | 0.5300           | 1.0032 |
| 0.7200         | *****  | 0.7300           | 1.0024 |
| 0.9100         | *****  | 0.9400           | 1.0045 |
| 1.1100         | *****  | 1.1500           | 0.9936 |
| 1.3000         | *****  | 1.3500           | 0.9898 |
| 1.5300         | *****  | 1.5500           | 1.0005 |
| 1.7400         | *****  | 1.7500           | 1.0016 |
| 1.9400         | *****  | 1.9500           | 1.0076 |
| 2.1400         | *****  | 2.1600           | 0.9999 |
| 2.3500         | *****  | 2.3700           | 1.0012 |
| 2.5500         | *****  | 2.5800           | 1.0029 |

\*\*\*\*\* - no data

Flight 32 Test point 9

Sweep, deg = 25.1 Mach = 0.69 hp, ft = 35100. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 166.5 Rnpu = 1643000.

|                       |                |                |                |            |
|-----------------------|----------------|----------------|----------------|------------|
|                       | Boundary layer | Displacement   | Momentum       | Transition |
|                       | height, in.    | thickness, in. | thickness, in. | strip      |
| Middle station rake   | *****          | *****          | *****          | none       |
| Outboard station rake | 0.4358         | 0.1228         | 0.0538         | 0.3 x/c    |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4078 |
| 0.0500         | *****  | 0.0700           | 0.5487 |
| 0.1100         | *****  | 0.1200           | 0.6692 |
| 0.1700         | *****  | 0.1800           | 0.7534 |
| 0.2200         | *****  | 0.2100           | 0.7938 |
| 0.2700         | *****  | 0.2700           | 0.8695 |
| 0.3200         | *****  | 0.3100           | 0.9236 |
| 0.3600         | *****  | 0.3700           | 0.9666 |
| 0.4100         | *****  | 0.4200           | 0.9891 |
| 0.5100         | *****  | 0.5300           | 1.0026 |
| 0.7200         | *****  | 0.7300           | 1.0013 |
| 0.9100         | *****  | 0.9400           | 1.0038 |
| 1.1100         | *****  | 1.1500           | 0.9954 |
| 1.3000         | *****  | 1.3500           | 0.9872 |
| 1.5300         | *****  | 1.5500           | 1.0031 |
| 1.7400         | *****  | 1.7500           | 0.9997 |
| 1.9400         | *****  | 1.9500           | 1.0066 |
| 2.1400         | *****  | 2.1600           | 1.0049 |
| 2.3500         | *****  | 2.3700           | 0.9993 |
| 2.5500         | *****  | 2.5800           | 1.0069 |

\*\*\*\*\* - no data

Flight 32 Test point 10

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 3.7  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 170.9 Rnpu = 1670000.

|                       |                               |                                |                            |                     |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7235                        | 0.2191                         | 0.0924                     | 0.3 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5474 |
| 0.0500         | *****  | 0.0700           | 0.3508 |
| 0.1100         | *****  | 0.1200           | 0.3679 |
| 0.1700         | *****  | 0.1800           | 0.5370 |
| 0.2200         | *****  | 0.2100           | 0.6065 |
| 0.2700         | *****  | 0.2700           | 0.6888 |
| 0.3200         | *****  | 0.3100           | 0.7572 |
| 0.3600         | *****  | 0.3700           | 0.8036 |
| 0.4100         | *****  | 0.4200           | 0.8492 |
| 0.5100         | *****  | 0.5300           | 0.9365 |
| 0.7200         | *****  | 0.7300           | 1.0019 |
| 0.9100         | *****  | 0.9400           | 1.0046 |
| 1.1100         | *****  | 1.1500           | 0.9957 |
| 1.3000         | *****  | 1.3500           | 0.9917 |
| 1.5300         | *****  | 1.5500           | 1.0005 |
| 1.7400         | *****  | 1.7500           | 0.9998 |
| 1.9400         | *****  | 1.9500           | 1.0027 |
| 2.1400         | *****  | 2.1600           | 1.0004 |
| 2.3500         | *****  | 2.3700           | 1.0011 |
| 2.5500         | *****  | 2.5800           | 1.0015 |

\*\*\*\*\* - no data

Flight 32 Test point 11

Sweep, deg = 20.0 Mach = 0.69 hp, ft = 35400. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 164.4 Rrho = 1623000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.4428                        | 0.1474                         | 0.0570                     | 0.3 x/c             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.3623             |
| 0.0500         | *****              | 0.0700           | 0.2930             |
| 0.1100         | *****              | 0.1200           | 0.5803             |
| 0.1700         | *****              | 0.1800           | 0.7015             |
| 0.2200         | *****              | 0.2100           | 0.7610             |
| 0.2700         | *****              | 0.2700           | 0.8403             |
| 0.3200         | *****              | 0.3100           | 0.9051             |
| 0.3600         | *****              | 0.3700           | 0.9506             |
| 0.4100         | *****              | 0.4200           | 0.9855             |
| 0.5100         | *****              | 0.5300           | 1.0009             |
| 0.7200         | *****              | 0.7300           | 1.0038             |
| 0.9100         | *****              | 0.9400           | 1.0070             |
| 1.1100         | *****              | 1.1500           | 0.9945             |
| 1.3000         | *****              | 1.3500           | 0.9898             |
| 1.5300         | *****              | 1.5500           | 1.0019             |
| 1.7400         | *****              | 1.7500           | 1.0038             |
| 1.9400         | *****              | 1.9500           | 1.0045             |
| 2.1400         | *****              | 2.1600           | 1.0017             |
| 2.3500         | *****              | 2.3700           | 1.0017             |
| 2.5500         | *****              | 2.5800           | 1.0051             |

\*\*\*\*\* - no data



Flight 32 Test point 12

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 35300. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 166.1 Rho = 1636000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.4495                                 | 0.1563                                  | 0.0576                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4419 |
| 0.0500         | *****  | 0.0700           | 0.1676 |
| 0.1100         | *****  | 0.1200           | 0.5442 |
| 0.1700         | *****  | 0.1800           | 0.6841 |
| 0.2200         | *****  | 0.2100           | 0.7415 |
| 0.2700         | *****  | 0.2700           | 0.8258 |
| 0.3200         | *****  | 0.3100           | 0.8926 |
| 0.3600         | *****  | 0.3700           | 0.9384 |
| 0.4100         | *****  | 0.4200           | 0.9781 |
| 0.5100         | *****  | 0.5300           | 1.0027 |
| 0.7200         | *****  | 0.7300           | 1.0019 |
| 0.9100         | *****  | 0.9400           | 1.0033 |
| 1.1100         | *****  | 1.1500           | 0.9959 |
| 1.3000         | *****  | 1.3500           | 0.9944 |
| 1.5300         | *****  | 1.5500           | 1.0032 |
| 1.7400         | *****  | 1.7500           | 1.0030 |
| 1.9400         | *****  | 1.9500           | 1.0048 |
| 2.1400         | *****  | 2.1600           | 1.0044 |
| 2.3500         | *****  | 2.3700           | 1.0007 |
| 2.5500         | *****  | 2.5800           | 1.0075 |

\*\*\*\*\* - no data

Flight 32 Test point 13

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 35000. Angle of attack, deg = 2.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 196.8 Rnpu = 1808000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.6784                                 | 0.2285                                  | 0.0826                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.6090 |
| 0.0500         | *****  | 0.0700           | 0.5172 |
| 0.1100         | *****  | 0.1200           | 0.1934 |
| 0.1700         | *****  | 0.1800           | 0.3645 |
| 0.2200         | *****  | 0.2100           | 0.4917 |
| 0.2700         | *****  | 0.2700           | 0.6145 |
| 0.3200         | *****  | 0.3100           | 0.7167 |
| 0.3600         | *****  | 0.3700           | 0.7964 |
| 0.4100         | *****  | 0.4200           | 0.8678 |
| 0.5100         | *****  | 0.5300           | 0.9823 |
| 0.7200         | *****  | 0.7300           | 1.0053 |
| 0.9100         | *****  | 0.9400           | 1.0093 |
| 1.1100         | *****  | 1.1500           | 0.9995 |
| 1.3000         | *****  | 1.3500           | 0.9953 |
| 1.5300         | *****  | 1.5500           | 0.9999 |
| 1.7400         | *****  | 1.7500           | 0.9973 |
| 1.9400         | *****  | 1.9500           | 1.0007 |
| 2.1400         | *****  | 2.1600           | 0.9970 |
| 2.3500         | *****  | 2.3700           | 0.9982 |
| 2.5500         | *****  | 2.5800           | 0.9975 |

\*\*\*\*\* - no data

Flight 32 Test point 14

Sweep, deg = 20.0 Mach = 0.74 hp, ft = 34300. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 198.1 Rrho = 1830000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.4470                                 | 0.1656                                  | 0.0563                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4556 |
| 0.0500         | *****  | 0.0700           | 0.0691 |
| 0.1100         | *****  | 0.1200           | 0.5087 |
| 0.1700         | *****  | 0.1800           | 0.6582 |
| 0.2200         | *****  | 0.2100           | 0.7230 |
| 0.2700         | *****  | 0.2700           | 0.8134 |
| 0.3200         | *****  | 0.3100           | 0.8816 |
| 0.3600         | *****  | 0.3700           | 0.9359 |
| 0.4100         | *****  | 0.4200           | 0.9784 |
| 0.5100         | *****  | 0.5300           | 1.0041 |
| 0.7200         | *****  | 0.7300           | 1.0051 |
| 0.9100         | *****  | 0.9400           | 1.0056 |
| 1.1100         | *****  | 1.1500           | 0.9976 |
| 1.3000         | *****  | 1.3500           | 0.9935 |
| 1.5300         | *****  | 1.5500           | 1.0019 |
| 1.7400         | *****  | 1.7500           | 1.0010 |
| 1.9400         | *****  | 1.9500           | 1.0049 |
| 2.1400         | *****  | 2.1600           | 1.0019 |
| 2.3500         | *****  | 2.3700           | 1.0011 |
| 2.5500         | *****  | 2.5800           | 1.0048 |

\*\*\*\*\* - no data

Flight 32 Test point 15

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 34500. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 201.6 Rrho = 1846000.

|                       |                               |                                |                            |                     |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.4777                        | 0.1735                         | 0.0673                     | 0.3 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5123 |
| 0.0500         | *****  | 0.0700           | 0.2779 |
| 0.1100         | *****  | 0.1200           | 0.4487 |
| 0.1700         | *****  | 0.1800           | 0.6107 |
| 0.2200         | *****  | 0.2100           | 0.6852 |
| 0.2700         | *****  | 0.2700           | 0.7711 |
| 0.3200         | *****  | 0.3100           | 0.8471 |
| 0.3600         | *****  | 0.3700           | 0.9018 |
| 0.4100         | *****  | 0.4200           | 0.9533 |
| 0.5100         | *****  | 0.5300           | 0.9998 |
| 0.7200         | *****  | 0.7300           | 1.0017 |
| 0.9100         | *****  | 0.9400           | 1.0040 |
| 1.1100         | *****  | 1.1500           | 0.9947 |
| 1.3000         | *****  | 1.3500           | 0.9922 |
| 1.5300         | *****  | 1.5500           | 1.0003 |
| 1.7400         | *****  | 1.7500           | 1.0003 |
| 1.9400         | *****  | 1.9500           | 1.0025 |
| 2.1400         | *****  | 2.1600           | 1.0000 |
| 2.3500         | *****  | 2.3700           | 1.0020 |
| 2.5500         | *****  | 2.5800           | 1.0024 |

\*\*\*\*\* - no data

Flight 32 Test point 16

Sweep, deg = 25.0 Mach = 0.75 hp, ft = 35000. Angle of attack, deg = 2.8  
 Angle of sideslip, deg = 0.5 QBAR, lb/ft<sup>2</sup> = 196.5 Rrho = 1795000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.4662                                 | 0.1474                                  | 0.0611                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.8147 |
| 0.0500         | *****  | 0.0700           | 0.4862 |
| 0.1100         | *****  | 0.1200           | 0.6243 |
| 0.1700         | *****  | 0.1800           | 0.7076 |
| 0.2200         | *****  | 0.2100           | 0.7553 |
| 0.2700         | *****  | 0.2700           | 0.8238 |
| 0.3200         | *****  | 0.3100           | 0.8792 |
| 0.3600         | *****  | 0.3700           | 0.9229 |
| 0.4100         | *****  | 0.4200           | 0.9644 |
| 0.5100         | *****  | 0.5300           | 1.0048 |
| 0.7200         | *****  | 0.7300           | 1.0053 |
| 0.9100         | *****  | 0.9400           | 1.0070 |
| 1.1100         | *****  | 1.1500           | 0.9981 |
| 1.3000         | *****  | 1.3500           | 0.9932 |
| 1.5300         | *****  | 1.5500           | 1.0035 |
| 1.7400         | *****  | 1.7500           | 1.0029 |
| 1.9400         | *****  | 1.9500           | 1.0059 |
| 2.1400         | *****  | 2.1600           | 1.0062 |
| 2.3500         | *****  | 2.3700           | 1.0036 |
| 2.5500         | *****  | 2.5800           | 1.0052 |

\*\*\*\*\* - no data

Flight 32 Test point 17

Sweep, deg = 25.1 Mach = 0.75 hp, ft = 35400. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = 0.5 QBAR, lb/ft<sup>2</sup> = 189.5 Rho = 1748000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.4357                                 | 0.1332                                  | 0.0557                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3559 |
| 0.0500         | *****  | 0.0700           | 0.5066 |
| 0.1100         | *****  | 0.1200           | 0.6399 |
| 0.1700         | *****  | 0.1800           | 0.7296 |
| 0.2200         | *****  | 0.2100           | 0.7816 |
| 0.2700         | *****  | 0.2700           | 0.8541 |
| 0.3200         | *****  | 0.3100           | 0.9095 |
| 0.3600         | *****  | 0.3700           | 0.9575 |
| 0.4100         | *****  | 0.4200           | 0.9888 |
| 0.5100         | *****  | 0.5300           | 1.0031 |
| 0.7200         | *****  | 0.7300           | 1.0017 |
| 0.9100         | *****  | 0.9400           | 1.0034 |
| 1.1100         | *****  | 1.1500           | 0.9937 |
| 1.3000         | *****  | 1.3500           | 0.9936 |
| 1.5300         | *****  | 1.5500           | 1.0043 |
| 1.7400         | *****  | 1.7500           | 1.0030 |
| 1.9400         | *****  | 1.9500           | 1.0042 |
| 2.1400         | *****  | 2.1600           | 1.0039 |
| 2.3500         | *****  | 2.3700           | 0.9994 |
| 2.5500         | *****  | 2.5800           | 1.0010 |

\*\*\*\*\* - no data

Flight 32 Test point 18

Sweep, deg = 25.1 Mach = 0.74 hp, ft = 35500. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.5 QBAR, lb/ft<sup>2</sup> = 187.6 Rrho = 1737000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.4419                                 | 0.1386                                  | 0.0570                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3329 |
| 0.0500         | *****  | 0.0700           | 0.4829 |
| 0.1100         | *****  | 0.1200           | 0.6252 |
| 0.1700         | *****  | 0.1800           | 0.7154 |
| 0.2200         | *****  | 0.2100           | 0.7656 |
| 0.2700         | *****  | 0.2700           | 0.8458 |
| 0.3200         | *****  | 0.3100           | 0.9057 |
| 0.3600         | *****  | 0.3700           | 0.9517 |
| 0.4100         | *****  | 0.4200           | 0.9858 |
| 0.5100         | *****  | 0.5300           | 1.0005 |
| 0.7200         | *****  | 0.7300           | 1.0011 |
| 0.9100         | *****  | 0.9400           | 1.0049 |
| 1.1100         | *****  | 1.1500           | 0.9988 |
| 1.3000         | *****  | 1.3500           | 0.9950 |
| 1.5300         | *****  | 1.5500           | 1.0015 |
| 1.7400         | *****  | 1.7500           | 1.0007 |
| 1.9400         | *****  | 1.9500           | 1.0048 |
| 2.1400         | *****  | 2.1600           | 1.0043 |
| 2.3500         | *****  | 2.3700           | 1.0011 |
| 2.5500         | *****  | 2.5800           | 1.0014 |

\*\*\*\*\* - no data

Flight 32 Test point 19

Sweep, deg = 30.4 Mach = 0.75 hp, ft = 34900. Angle of attack, deg = 3.4  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 196.8 Rnpu = 1810000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7128                        | 0.1738                         | 0.0813                     | 0.3 x/c             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.4671             |
| 0.0500         | *****              | 0.0700           | 0.5253             |
| 0.1100         | *****              | 0.1200           | 0.6060             |
| 0.1700         | *****              | 0.1800           | 0.6602             |
| 0.2200         | *****              | 0.2100           | 0.6968             |
| 0.2700         | *****              | 0.2700           | 0.7581             |
| 0.3200         | *****              | 0.3100           | 0.8106             |
| 0.3600         | *****              | 0.3700           | 0.8530             |
| 0.4100         | *****              | 0.4200           | 0.8933             |
| 0.5100         | *****              | 0.5300           | 0.9657             |
| 0.7200         | *****              | 0.7300           | 1.0028             |
| 0.9100         | *****              | 0.9400           | 1.0031             |
| 1.1100         | *****              | 1.1500           | 0.9949             |
| 1.3000         | *****              | 1.3500           | 0.9931             |
| 1.5300         | *****              | 1.5500           | 1.0007             |
| 1.7400         | *****              | 1.7500           | 1.0012             |
| 1.9400         | *****              | 1.9500           | 1.0025             |
| 2.1400         | *****              | 2.1600           | 1.0005             |
| 2.3500         | *****              | 2.3700           | 0.9999             |
| 2.5500         | *****              | 2.5800           | 1.0012             |

\*\*\*\*\* - no data



Flight 32 Test point 20

Sweep, deg = 30.5 Mach = 0.76 hp, ft = 35500. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 195.4 Rnpu = 1791000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.4390                        | 0.1167                         | 0.0541                     | 0.3 x/c             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.5565             |
| 0.0500         | *****              | 0.0700           | 0.6063             |
| 0.1100         | *****              | 0.1200           | 0.6906             |
| 0.1700         | *****              | 0.1800           | 0.7552             |
| 0.2200         | *****              | 0.2100           | 0.7973             |
| 0.2700         | *****              | 0.2700           | 0.8612             |
| 0.3200         | *****              | 0.3100           | 0.9181             |
| 0.3600         | *****              | 0.3700           | 0.9579             |
| 0.4100         | *****              | 0.4200           | 0.9896             |
| 0.5100         | *****              | 0.5300           | 1.0031             |
| 0.7200         | *****              | 0.7300           | 1.0031             |
| 0.9100         | *****              | 0.9400           | 1.0033             |
| 1.1100         | *****              | 1.1500           | 0.9965             |
| 1.3000         | *****              | 1.3500           | 0.9896             |
| 1.5300         | *****              | 1.5500           | 1.0040             |
| 1.7400         | *****              | 1.7500           | 1.0020             |
| 1.9400         | *****              | 1.9500           | 1.0044             |
| 2.1400         | *****              | 2.1600           | 1.0017             |
| 2.3500         | *****              | 2.3700           | 1.0001             |
| 2.5500         | *****              | 2.5800           | 1.0026             |

\*\*\*\*\* - no data

Flight 32 Test point 21

Sweep, deg = 30.3 Mach = 0.75 hp, ft = 35800. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 185.8 Rrho = 1720000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.4180                                 | 0.1104                                  | 0.0504                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5614 |
| 0.0500         | *****  | 0.0700           | 0.6129 |
| 0.1100         | *****  | 0.1200           | 0.6952 |
| 0.1700         | *****  | 0.1800           | 0.7688 |
| 0.2200         | *****  | 0.2100           | 0.8188 |
| 0.2700         | *****  | 0.2700           | 0.8853 |
| 0.3200         | *****  | 0.3100           | 0.9363 |
| 0.3600         | *****  | 0.3700           | 0.9735 |
| 0.4100         | *****  | 0.4200           | 0.9970 |
| 0.5100         | *****  | 0.5300           | 1.0057 |
| 0.7200         | *****  | 0.7300           | 1.0060 |
| 0.9100         | *****  | 0.9400           | 1.0058 |
| 1.1100         | *****  | 1.1500           | 0.9978 |
| 1.3000         | *****  | 1.3500           | 0.9917 |
| 1.5300         | *****  | 1.5500           | 1.0048 |
| 1.7400         | *****  | 1.7500           | 1.0031 |
| 1.9400         | *****  | 1.9500           | 1.0045 |
| 2.1400         | *****  | 2.1600           | 1.0018 |
| 2.3500         | *****  | 2.3700           | 1.0036 |
| 2.5500         | *****  | 2.5800           | 1.0048 |

\*\*\*\*\* - no data

Flight 32 Test point 22

Sweep, deg = 35.5 Mach = 0.75 hp, ft = 34900. Angle of attack, deg = 3.7  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 195.4 Rrho = 1801000.

|                       |                |                |                |            |
|-----------------------|----------------|----------------|----------------|------------|
|                       | Boundary layer | Displacement   | Momentum       | Transition |
|                       | height, in.    | thickness, in. | thickness, in. | strip      |
| Middle station rake   | *****          | *****          | *****          | none       |
| Outboard station rake | 0.7419         | 0.1979         | 0.0968         | 0.8 x/c    |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5212 |
| 0.0500         | *****  | 0.0700           | 0.5470 |
| 0.1100         | *****  | 0.1200           | 0.6088 |
| 0.1700         | *****  | 0.1800           | 0.6551 |
| 0.2200         | *****  | 0.2100           | 0.6704 |
| 0.2700         | *****  | 0.2700           | 0.7207 |
| 0.3200         | *****  | 0.3100           | 0.7641 |
| 0.3600         | *****  | 0.3700           | 0.8040 |
| 0.4100         | *****  | 0.4200           | 0.8386 |
| 0.5100         | *****  | 0.5300           | 0.9066 |
| 0.7200         | *****  | 0.7300           | 0.9953 |
| 0.9100         | *****  | 0.9400           | 1.0054 |
| 1.1100         | *****  | 1.1500           | 0.9964 |
| 1.3000         | *****  | 1.3500           | 0.9923 |
| 1.5300         | *****  | 1.5500           | 1.0016 |
| 1.7400         | *****  | 1.7500           | 1.0016 |
| 1.9400         | *****  | 1.9500           | 1.0036 |
| 2.1400         | *****  | 2.1600           | 1.0020 |
| 2.3500         | *****  | 2.3700           | 0.9999 |
| 2.5500         | *****  | 2.5800           | 1.0019 |

\*\*\*\*\* - no data

Flight 32 Test point 23

Sweep, deg = 35.6 Mach = 0.75 hp, ft = 34700. Angle of attack, deg = -0.2  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 198.8 Rnpu = 1824000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5817                        | 0.1467                         | 0.0723                     | 0.3 x/c             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.5697             |
| 0.0500         | *****              | 0.0700           | 0.6048             |
| 0.1100         | *****              | 0.1200           | 0.6678             |
| 0.1700         | *****              | 0.1800           | 0.7154             |
| 0.2200         | *****              | 0.2100           | 0.7434             |
| 0.2700         | *****              | 0.2700           | 0.8015             |
| 0.3200         | *****              | 0.3100           | 0.8479             |
| 0.3600         | *****              | 0.3700           | 0.8764             |
| 0.4100         | *****              | 0.4200           | 0.9110             |
| 0.5100         | *****              | 0.5300           | 0.9739             |
| 0.7200         | *****              | 0.7300           | 1.0032             |
| 0.9100         | *****              | 0.9400           | 1.0064             |
| 1.1100         | *****              | 1.1500           | 0.9973             |
| 1.3000         | *****              | 1.3500           | 0.9938             |
| 1.5300         | *****              | 1.5500           | 1.0035             |
| 1.7400         | *****              | 1.7500           | 1.0025             |
| 1.9400         | *****              | 1.9500           | 1.0073             |
| 2.1400         | *****              | 2.1600           | 1.0039             |
| 2.3500         | *****              | 2.3700           | 1.0034             |
| 2.5500         | *****              | 2.5800           | 1.0046             |

\*\*\*\*\* - no data

Flight 32 Test point 24

Sweep, deg = 35.5 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 2.9  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 224.4 Rrho = 1950000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.8460                                 | 0.2300                                  | 0.1055                              | 0.8 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4680 |
| 0.0500         | *****  | 0.0700           | 0.5021 |
| 0.1100         | *****  | 0.1200           | 0.5481 |
| 0.1700         | *****  | 0.1800           | 0.5953 |
| 0.2200         | *****  | 0.2100           | 0.6155 |
| 0.2700         | *****  | 0.2700           | 0.6628 |
| 0.3200         | *****  | 0.3100           | 0.7111 |
| 0.3600         | *****  | 0.3700           | 0.7517 |
| 0.4100         | *****  | 0.4200           | 0.7976 |
| 0.5100         | *****  | 0.5300           | 0.8849 |
| 0.7200         | *****  | 0.7300           | 0.9938 |
| 0.9100         | *****  | 0.9400           | 1.0044 |
| 1.1100         | *****  | 1.1500           | 0.9966 |
| 1.3000         | *****  | 1.3500           | 0.9952 |
| 1.5300         | *****  | 1.5500           | 1.0023 |
| 1.7400         | *****  | 1.7500           | 1.0017 |
| 1.9400         | *****  | 1.9500           | 1.0020 |
| 2.1400         | *****  | 2.1600           | 0.9998 |
| 2.3500         | *****  | 2.3700           | 0.9981 |
| 2.5500         | *****  | 2.5800           | 0.9998 |

\*\*\*\*\* - no data

Flight 32 . Test point 25

Sweep, deg = 35.6 Mach = 0.80 hp, ft = 35600. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 214.0 Rrho = 1870000.

|                       |                |                |                |            |
|-----------------------|----------------|----------------|----------------|------------|
|                       | Boundary layer | Displacement   | Momentum       | Transition |
|                       | height, in.    | thickness, in. | thickness, in. | strip      |
| Middle station rake   | *****          | *****          | *****          | none       |
| Outboard station rake | 0.7209         | 0.1726         | 0.0830         | 0.3 x/c    |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5309 |
| 0.0500         | *****  | 0.0700           | 0.5643 |
| 0.1100         | *****  | 0.1200           | 0.6240 |
| 0.1700         | *****  | 0.1800           | 0.6749 |
| 0.2200         | *****  | 0.2100           | 0.7041 |
| 0.2700         | *****  | 0.2700           | 0.7574 |
| 0.3200         | *****  | 0.3100           | 0.8065 |
| 0.3600         | *****  | 0.3700           | 0.8440 |
| 0.4100         | *****  | 0.4200           | 0.8837 |
| 0.5100         | *****  | 0.5300           | 0.9565 |
| 0.7200         | *****  | 0.7300           | 1.0018 |
| 0.9100         | *****  | 0.9400           | 1.0036 |
| 1.1100         | *****  | 1.1500           | 0.9967 |
| 1.3000         | *****  | 1.3500           | 0.9933 |
| 1.5300         | *****  | 1.5500           | 1.0016 |
| 1.7400         | *****  | 1.7500           | 0.9987 |
| 1.9400         | *****  | 1.9500           | 1.0031 |
| 2.1400         | *****  | 2.1600           | 0.9994 |
| 2.3500         | *****  | 2.3700           | 0.9998 |
| 2.5500         | *****  | 2.5800           | 1.0018 |

\*\*\*\*\* - no data

Flight 32 Test point 26

Sweep, deg = 29.7 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 2.3  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 224.2 Rrho = 1945000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.6427                        | 0.2554                         | 0.0773                     | 0.3 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.1878 |
| 0.0500         | *****  | 0.0700           | 0.1987 |
| 0.1100         | *****  | 0.1200           | 0.3258 |
| 0.1700         | *****  | 0.1800           | 0.3942 |
| 0.2200         | *****  | 0.2100           | 0.4632 |
| 0.2700         | *****  | 0.2700           | 0.5726 |
| 0.3200         | *****  | 0.3100           | 0.6707 |
| 0.3600         | *****  | 0.3700           | 0.7815 |
| 0.4100         | *****  | 0.4200           | 0.8721 |
| 0.5100         | *****  | 0.5300           | 0.9918 |
| 0.7200         | *****  | 0.7300           | 1.0055 |
| 0.9100         | *****  | 0.9400           | 1.0046 |
| 1.1100         | *****  | 1.1500           | 0.9998 |
| 1.3000         | *****  | 1.3500           | 0.9970 |
| 1.5300         | *****  | 1.5500           | 1.0038 |
| 1.7400         | *****  | 1.7500           | 1.0022 |
| 1.9400         | *****  | 1.9500           | 1.0004 |
| 2.1400         | *****  | 2.1600           | 0.9967 |
| 2.3500         | *****  | 2.3700           | 0.9941 |
| 2.5500         | *****  | 2.5800           | 0.9960 |

\*\*\*\*\* - no data

Flight 32 Test point 27

Sweep, deg = 29.7 Mach = 0.80 hp, ft = 34900. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 222.6 Rnpu = 1939000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5318                                 | 0.1579                                  | 0.0703                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4568 |
| 0.0500         | *****  | 0.0700           | 0.5204 |
| 0.1100         | *****  | 0.1200           | 0.5999 |
| 0.1700         | *****  | 0.1800           | 0.6671 |
| 0.2200         | *****  | 0.2100           | 0.7099 |
| 0.2700         | *****  | 0.2700           | 0.7846 |
| 0.3200         | *****  | 0.3100           | 0.8396 |
| 0.3600         | *****  | 0.3700           | 0.8905 |
| 0.4100         | *****  | 0.4200           | 0.9396 |
| 0.5100         | *****  | 0.5300           | 0.9991 |
| 0.7200         | *****  | 0.7300           | 1.0022 |
| 0.9100         | *****  | 0.9400           | 1.0052 |
| 1.1100         | *****  | 1.1500           | 0.9959 |
| 1.3000         | *****  | 1.3500           | 0.9921 |
| 1.5300         | *****  | 1.5500           | 1.0015 |
| 1.7400         | *****  | 1.7500           | 0.9997 |
| 1.9400         | *****  | 1.9500           | 1.0022 |
| 2.1400         | *****  | 2.1600           | 1.0014 |
| 2.3500         | *****  | 2.3700           | 0.9999 |
| 2.5500         | *****  | 2.5800           | 1.0010 |

\*\*\*\*\* - no data



Flight 32 Test point 28

Sweep, deg = 29.7 Mach = 0.80 hp, ft = 35200. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 222.1 Rnpu = 1.29000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5605                                 | 0.2336                                  | 0.0773                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.1852 |
| 0.0500         | *****  | 0.0700           | 0.2574 |
| 0.1100         | *****  | 0.1200           | 0.3690 |
| 0.1700         | *****  | 0.1800           | 0.4448 |
| 0.2200         | *****  | 0.2100           | 0.5097 |
| 0.2700         | *****  | 0.2700           | 0.6165 |
| 0.3200         | *****  | 0.3100           | 0.7119 |
| 0.3600         | *****  | 0.3700           | 0.8102 |
| 0.4100         | *****  | 0.4200           | 0.8960 |
| 0.5100         | *****  | 0.5300           | 0.9988 |
| 0.7200         | *****  | 0.7300           | 1.0059 |
| 0.9100         | *****  | 0.9400           | 1.0061 |
| 1.1100         | *****  | 1.1500           | 1.0004 |
| 1.3000         | *****  | 1.3500           | 0.9974 |
| 1.5300         | *****  | 1.5500           | 0.9976 |
| 1.7400         | *****  | 1.7500           | 1.0008 |
| 1.9400         | *****  | 1.9500           | 1.0001 |
| 2.1400         | *****  | 2.1600           | 0.9957 |
| 2.3500         | *****  | 2.3700           | 0.9968 |
| 2.5500         | *****  | 2.5800           | 0.9991 |

\*\*\*\*\* - no data

Flight 32 Test point 29

Sweep, deg = 25.0 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 223.6 R<sub>npu</sub> = 1942000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5296                                 | 0.2335                                  | 0.0714                              | 0.3 x/c                     |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.3729             |
| 0.0500         | *****              | 0.0700           | 0.3042             |
| 0.1100         | *****              | 0.1200           | 0.2445             |
| 0.1700         | *****              | 0.1800           | 0.4231             |
| 0.2200         | *****              | 0.2100           | 0.5153             |
| 0.2700         | *****              | 0.2700           | 0.6461             |
| 0.3200         | *****              | 0.3100           | 0.7508             |
| 0.3600         | *****              | 0.3700           | 0.8401             |
| 0.4100         | *****              | 0.4200           | 0.9157             |
| 0.5100         | *****              | 0.5300           | 1.0003             |
| 0.7200         | *****              | 0.7300           | 1.0047             |
| 0.9100         | *****              | 0.9400           | 1.0040             |
| 1.1100         | *****              | 1.1500           | 1.0013             |
| 1.3000         | *****              | 1.3500           | 0.9988             |
| 1.5300         | *****              | 1.5500           | 1.0041             |
| 1.7400         | *****              | 1.7500           | 1.0029             |
| 1.9400         | *****              | 1.9500           | 1.0019             |
| 2.1400         | *****              | 2.1600           | 0.9928             |
| 2.3500         | *****              | 2.3700           | 0.9949             |
| 2.5500         | *****              | 2.5800           | 0.9944             |

\*\*\*\*\* - no data

Flight 32 Test point 30

Sweep, deg = 25.0 Mach = 0.81 hp, ft = 34600. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 230.9 Rnpu = 199i300.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5299                                 | 0.2146                                  | 0.0692                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4139 |
| 0.0500         | *****  | 0.0700           | 0.3100 |
| 0.1100         | *****  | 0.1200           | 0.2824 |
| 0.1700         | *****  | 0.1800           | 0.4668 |
| 0.2200         | *****  | 0.2100           | 0.5799 |
| 0.2700         | *****  | 0.2700           | 0.6996 |
| 0.3200         | *****  | 0.3100           | 0.7910 |
| 0.3600         | *****  | 0.3700           | 0.8738 |
| 0.4100         | *****  | 0.4200           | 0.9378 |
| 0.5100         | *****  | 0.5300           | 1.0000 |
| 0.7200         | *****  | 0.7300           | 1.0029 |
| 0.9100         | *****  | 0.9400           | 1.0037 |
| 1.1100         | *****  | 1.1500           | 0.9987 |
| 1.3000         | *****  | 1.3500           | 0.9966 |
| 1.5300         | *****  | 1.5500           | 1.0031 |
| 1.7400         | *****  | 1.7500           | 1.0020 |
| 1.9400         | *****  | 1.9500           | 1.0021 |
| 2.1400         | *****  | 2.1600           | 0.9989 |
| 2.3500         | *****  | 2.3700           | 0.9954 |
| 2.5500         | *****  | 2.5800           | 0.9966 |

\*\*\*\*\* - no data

Flight 32 Test point 31

Sweep, deg = 25.0 Mach = 0.80 hp, ft = 34400. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 230.4 Rrho = 1992000.

|                       |                               |                                |                            |                     |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5295                        | 0.2267                         | 0.0698                     | 0.3 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3989 |
| 0.0500         | *****  | 0.0700           | 0.3277 |
| 0.1100         | *****  | 0.1200           | 0.2304 |
| 0.1700         | *****  | 0.1800           | 0.4365 |
| 0.2200         | *****  | 0.2100           | 0.5423 |
| 0.2700         | *****  | 0.2700           | 0.6627 |
| 0.3200         | *****  | 0.3100           | 0.7662 |
| 0.3600         | *****  | 0.3700           | 0.8567 |
| 0.4100         | *****  | 0.4200           | 0.9285 |
| 0.5100         | *****  | 0.5300           | 1.0003 |
| 0.7200         | *****  | 0.7300           | 1.0057 |
| 0.9100         | *****  | 0.9400           | 1.0049 |
| 1.1100         | *****  | 1.1500           | 1.0012 |
| 1.3000         | *****  | 1.3500           | 0.9972 |
| 1.5300         | *****  | 1.5500           | 1.0042 |
| 1.7400         | *****  | 1.7500           | 1.0033 |
| 1.9400         | *****  | 1.9500           | 1.0029 |
| 2.1400         | *****  | 2.1600           | 0.9935 |
| 2.3500         | *****  | 2.3700           | 0.9949 |
| 2.5500         | *****  | 2.5800           | 0.9926 |

\*\*\*\*\* - no data

Flight 32 Test point 32

Sweep, deg = 20.1 Mach = 0.80 hp, ft = 35100. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 221.4 Rrho = 1920000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7078                                 | 0.3137                                  | 0.0795                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.2801 |
| 0.0500         | *****  | 0.0700           | 0.2838 |
| 0.1100         | *****  | 0.1200           | 0.0556 |
| 0.1700         | *****  | 0.1800           | 0.1948 |
| 0.2200         | *****  | 0.2100           | 0.2867 |
| 0.2700         | *****  | 0.2700           | 0.4345 |
| 0.3200         | *****  | 0.3100           | 0.5574 |
| 0.3600         | *****  | 0.3700           | 0.6715 |
| 0.4100         | *****  | 0.4200           | 0.7827 |
| 0.5100         | *****  | 0.5300           | 0.9513 |
| 0.7200         | *****  | 0.7300           | 1.0054 |
| 0.9100         | *****  | 0.9400           | 1.0055 |
| 1.1100         | *****  | 1.1500           | 0.9997 |
| 1.3000         | *****  | 1.3500           | 0.9968 |
| 1.5300         | *****  | 1.5500           | 1.0036 |
| 1.7400         | *****  | 1.7500           | 1.0013 |
| 1.9400         | *****  | 1.9500           | 1.0039 |
| 2.1400         | *****  | 2.1600           | 0.9998 |
| 2.3500         | *****  | 2.3700           | 0.9934 |
| 2.5500         | *****  | 2.5800           | 0.9906 |

\*\*\*\*\* - no data

Flight 32 Test point 33

Sweep, deg = 20.0 Mach = 0.81 hp, ft = 35100. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 224.4 Rrho = 1934000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.6782                        | 0.2412                         | 0.0771                     | 0.3 x/c             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.5347             |
| 0.0500         | *****              | 0.0700           | 0.4925             |
| 0.1100         | *****              | 0.1200           | 0.2757             |
| 0.1700         | *****              | 0.1800           | 0.2579             |
| 0.2200         | *****              | 0.2100           | 0.4218             |
| 0.2700         | *****              | 0.2700           | 0.5916             |
| 0.3200         | *****              | 0.3100           | 0.7093             |
| 0.3600         | *****              | 0.3700           | 0.8069             |
| 0.4100         | *****              | 0.4200           | 0.8898             |
| 0.5100         | *****              | 0.5300           | 0.9908             |
| 0.7200         | *****              | 0.7300           | 1.0028             |
| 0.9100         | *****              | 0.9400           | 1.0043             |
| 1.1100         | *****              | 1.1500           | 0.9990             |
| 1.3000         | *****              | 1.3500           | 0.9974             |
| 1.5300         | *****              | 1.5500           | 1.0023             |
| 1.7400         | *****              | 1.7500           | 1.0005             |
| 1.9400         | *****              | 1.9500           | 1.0029             |
| 2.1400         | *****              | 2.1600           | 0.9987             |
| 2.3500         | *****              | 2.3700           | 0.9942             |
| 2.5500         | *****              | 2.5800           | 0.9978             |

\*\*\*\*\* - no data

Flight 32 Test point 34

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 34500. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 228.0 Rrho = 1975000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.6876                                 | 0.2719                                  | 0.0782                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4088 |
| 0.0500         | *****  | 0.0700           | 0.3932 |
| 0.1100         | *****  | 0.1200           | 0.1853 |
| 0.1700         | *****  | 0.1800           | 0.2200 |
| 0.2200         | *****  | 0.2100           | 0.3676 |
| 0.2700         | *****  | 0.2700           | 0.5322 |
| 0.3200         | *****  | 0.3100           | 0.6511 |
| 0.3600         | *****  | 0.3700           | 0.7621 |
| 0.4100         | *****  | 0.4200           | 0.8504 |
| 0.5100         | *****  | 0.5300           | 0.9799 |
| 0.7200         | *****  | 0.7300           | 1.0047 |
| 0.9100         | *****  | 0.9400           | 1.0068 |
| 1.1100         | *****  | 1.1500           | 0.9991 |
| 1.3000         | *****  | 1.3500           | 0.9983 |
| 1.5300         | *****  | 1.5500           | 1.0029 |
| 1.7400         | *****  | 1.7500           | 1.0006 |
| 1.9400         | *****  | 1.9500           | 1.0044 |
| 2.1400         | *****  | 2.1600           | 0.9981 |
| 2.3500         | *****  | 2.3700           | 0.9933 |
| 2.5500         | *****  | 2.5800           | 0.9917 |

\*\*\*\*\* - no data

Flight 32 Test point 35

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 30000. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 284.5 Rnpu = 2410000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.6883                        | 0.2849                         | 0.0775                     | 0.3 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3521 |
| 0.0500         | *****  | 0.0700           | 0.3354 |
| 0.1100         | *****  | 0.1200           | 0.1415 |
| 0.1700         | *****  | 0.1800           | 0.2078 |
| 0.2200         | *****  | 0.2100           | 0.3258 |
| 0.2700         | *****  | 0.2700           | 0.4852 |
| 0.3200         | *****  | 0.3100           | 0.6083 |
| 0.3600         | *****  | 0.3700           | 0.7322 |
| 0.4100         | *****  | 0.4200           | 0.8391 |
| 0.5100         | *****  | 0.5300           | 0.9798 |
| 0.7200         | *****  | 0.7300           | 1.0046 |
| 0.9100         | *****  | 0.9400           | 1.0065 |
| 1.1100         | *****  | 1.1500           | 1.0006 |
| 1.3000         | *****  | 1.3500           | 1.0004 |
| 1.5300         | *****  | 1.5500           | 1.0030 |
| 1.7400         | *****  | 1.7500           | 1.0016 |
| 1.9400         | *****  | 1.9500           | 1.0030 |
| 2.1400         | *****  | 2.1600           | 0.9975 |
| 2.3500         | *****  | 2.3700           | 0.9925 |
| 2.5500         | *****  | 2.5800           | 0.9903 |

\*\*\*\*\* - no data



Flight 32 Test point 36

Sweep, deg = 20.1 Mach = 0.80 hp, ft = 30000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -5.3 QBAR, lb/ft<sup>2</sup> = 283.3 Rrho = 2403000.

|                       |                |                |                |            |
|-----------------------|----------------|----------------|----------------|------------|
|                       | Boundary layer | Displacement   | Momentum       | Transition |
|                       | height, in.    | thickness, in. | thickness, in. | strip      |
| Middle station rake   | *****          | *****          | *****          | none       |
| Outboard station rake | 0.7136         | 0.2656         | 0.0831         | 0.3 x/c    |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.6539 |
| 0.0500         | *****  | 0.0700           | 0.6509 |
| 0.1100         | *****  | 0.1200           | 0.4917 |
| 0.1700         | *****  | 0.1800           | 0.3488 |
| 0.2200         | *****  | 0.2100           | 0.0426 |
| 0.2700         | *****  | 0.2700           | 0.4262 |
| 0.3200         | *****  | 0.3100           | 0.5841 |
| 0.3600         | *****  | 0.3700           | 0.7020 |
| 0.4100         | *****  | 0.4200           | 0.8084 |
| 0.5100         | *****  | 0.5300           | 0.9674 |
| 0.7200         | *****  | 0.7300           | 1.0025 |
| 0.9100         | *****  | 0.9400           | 1.0042 |
| 1.1100         | *****  | 1.1500           | 0.9998 |
| 1.3000         | *****  | 1.3500           | 0.9985 |
| 1.5300         | *****  | 1.5500           | 1.0017 |
| 1.7400         | *****  | 1.7500           | 1.0005 |
| 1.9400         | *****  | 1.9500           | 1.0025 |
| 2.1400         | *****  | 2.1600           | 0.9994 |
| 2.3500         | *****  | 2.3700           | 0.9936 |
| 2.5500         | *****  | 2.5800           | 0.9973 |

\*\*\*\*\* - no data

Flight 32 Test point 37

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 31900. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 259.0 Rrho = 2214000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.6666                                 | 0.2404                                  | 0.0765                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5453 |
| 0.0500         | *****  | 0.0700           | 0.4933 |
| 0.1100         | *****  | 0.1200           | 0.2872 |
| 0.1700         | *****  | 0.1800           | 0.2471 |
| 0.2200         | *****  | 0.2100           | 0.4198 |
| 0.2700         | *****  | 0.2700           | 0.5882 |
| 0.3200         | *****  | 0.3100           | 0.7083 |
| 0.3600         | *****  | 0.3700           | 0.8096 |
| 0.4100         | *****  | 0.4200           | 0.8920 |
| 0.5100         | *****  | 0.5300           | 0.9932 |
| 0.7200         | *****  | 0.7300           | 1.0027 |
| 0.9100         | *****  | 0.9400           | 1.0051 |
| 1.1100         | *****  | 1.1500           | 0.9997 |
| 1.3000         | *****  | 1.3500           | 0.9977 |
| 1.5300         | *****  | 1.5500           | 1.0013 |
| 1.7400         | *****  | 1.7500           | 1.0018 |
| 1.9400         | *****  | 1.9500           | 1.0028 |
| 2.1400         | *****  | 2.1600           | 0.9972 |
| 2.3500         | *****  | 2.3700           | 0.9955 |
| 2.5500         | *****  | 2.5800           | 0.9962 |

\*\*\*\*\* - no data

Flight 32 Test point 38

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 32700. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 247.8 Rho = 2135000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7203                                 | 0.2562                                  | 0.0852                              | 0.3 x/c                     |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.6456             |
| 0.0500         | *****              | 0.0700           | 0.6419             |
| 0.1100         | *****              | 0.1200           | 0.4747             |
| 0.1700         | *****              | 0.1800           | 0.3364             |
| 0.2200         | *****              | 0.2100           | 0.1540             |
| 0.2700         | *****              | 0.2700           | 0.4481             |
| 0.3200         | *****              | 0.3100           | 0.6125             |
| 0.3600         | *****              | 0.3700           | 0.7304             |
| 0.4100         | *****              | 0.4200           | 0.8266             |
| 0.5100         | *****              | 0.5300           | 0.9698             |
| 0.7200         | *****              | 0.7300           | 1.0013             |
| 0.9100         | *****              | 0.9400           | 1.0036             |
| 1.1100         | *****              | 1.1500           | 0.9985             |
| 1.3000         | *****              | 1.3500           | 0.9974             |
| 1.5300         | *****              | 1.5500           | 1.0000             |
| 1.7400         | *****              | 1.7500           | 1.0028             |
| 1.9400         | *****              | 1.9500           | 0.9998             |
| 2.1400         | *****              | 2.1600           | 1.0021             |
| 2.3500         | *****              | 2.3700           | 0.9972             |
| 2.5500         | *****              | 2.5800           | 0.9973             |

\*\*\*\*\* - no data

Flight 32 Test point 39

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 30000. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 280.9 Rrho = 2389000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5401                        | 0.2152                         | 0.0718                     | 0.3 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4100 |
| 0.0500         | *****  | 0.0700           | 0.3077 |
| 0.1100         | *****  | 0.1200           | 0.3098 |
| 0.1700         | *****  | 0.1800           | 0.4826 |
| 0.2200         | *****  | 0.2100           | 0.5855 |
| 0.2700         | *****  | 0.2700           | 0.6998 |
| 0.3200         | *****  | 0.3100           | 0.7846 |
| 0.3600         | *****  | 0.3700           | 0.8620 |
| 0.4100         | *****  | 0.4200           | 0.9236 |
| 0.5100         | *****  | 0.5300           | 0.9941 |
| 0.7200         | *****  | 0.7300           | 1.0028 |
| 0.9100         | *****  | 0.9400           | 1.0025 |
| 1.1100         | *****  | 1.1500           | 0.9993 |
| 1.3000         | *****  | 1.3500           | 0.9977 |
| 1.5300         | *****  | 1.5500           | 1.0028 |
| 1.7400         | *****  | 1.7500           | 1.0019 |
| 1.9400         | *****  | 1.9500           | 1.0028 |
| 2.1400         | *****  | 2.1600           | 1.0005 |
| 2.3500         | *****  | 2.3700           | 0.9977 |
| 2.5500         | *****  | 2.5800           | 0.9979 |

\*\*\*\*\* - no data

Flight 32 Test point 40

Sweep, deg = 25.3 Mach = 0.75 hp, ft = 29900. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 246.1 Rho = 2224000.

|                       |                               |                                |                            |                     |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.4397                        | 0.1443                         | 0.0561                     | 0.3 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.2492 |
| 0.0500         | *****  | 0.0700           | 0.4550 |
| 0.1100         | *****  | 0.1200           | 0.6125 |
| 0.1700         | *****  | 0.1800           | 0.7048 |
| 0.2200         | *****  | 0.2100           | 0.7644 |
| 0.2700         | *****  | 0.2700           | 0.8405 |
| 0.3200         | *****  | 0.3100           | 0.9039 |
| 0.3600         | *****  | 0.3700           | 0.9528 |
| 0.4100         | *****  | 0.4200           | 0.9861 |
| 0.5100         | *****  | 0.5300           | 1.0032 |
| 0.7200         | *****  | 0.7300           | 1.0013 |
| 0.9100         | *****  | 0.9400           | 1.0066 |
| 1.1100         | *****  | 1.1500           | 0.9975 |
| 1.3000         | *****  | 1.3500           | 0.9942 |
| 1.5300         | *****  | 1.5500           | 1.0043 |
| 1.7400         | *****  | 1.7500           | 0.9989 |
| 1.9400         | *****  | 1.9500           | 1.0014 |
| 2.1400         | *****  | 2.1600           | 1.0037 |
| 2.3500         | *****  | 2.3700           | 1.0002 |
| 2.5500         | *****  | 2.5800           | 1.0026 |

\*\*\*\*\* - no data

Flight 32 Test point 41

Sweep, deg = 25.3 Mach = 0.75 hp, ft = 30200. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 245.8 Rnpu = 2214000.

|                       |                |                |                |            |
|-----------------------|----------------|----------------|----------------|------------|
|                       | Boundary layer | Displacement   | Momentum       | Transition |
|                       | height, in.    | thickness, in. | thickness, in. | strip      |
| Middle station rake   | *****          | *****          | *****          | none       |
| Outboard station rake | 0.4207         | 0.1371         | 0.0548         | 0.3 x/c    |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3066 |
| 0.0500         | *****  | 0.0700           | 0.4811 |
| 0.1100         | *****  | 0.1200           | 0.6250 |
| 0.1700         | *****  | 0.1800           | 0.7169 |
| 0.2200         | *****  | 0.2100           | 0.7820 |
| 0.2700         | *****  | 0.2700           | 0.8543 |
| 0.3200         | *****  | 0.3100           | 0.9120 |
| 0.3600         | *****  | 0.3700           | 0.9620 |
| 0.4100         | *****  | 0.4200           | 0.9921 |
| 0.5100         | *****  | 0.5300           | 1.0017 |
| 0.7200         | *****  | 0.7300           | 1.0014 |
| 0.9100         | *****  | 0.9400           | 1.0052 |
| 1.1100         | *****  | 1.1500           | 0.9970 |
| 1.3000         | *****  | 1.3500           | 0.9935 |
| 1.5300         | *****  | 1.5500           | 1.0019 |
| 1.7400         | *****  | 1.7500           | 1.0016 |
| 1.9400         | *****  | 1.9500           | 1.0026 |
| 2.1400         | *****  | 2.1600           | 1.0005 |
| 2.3500         | *****  | 2.3700           | 0.9990 |
| 2.5500         | *****  | 2.5800           | 1.0030 |

\*\*\*\*\* - no data

Flight 32 Test point 42

Sweep, deg = 25.3 Mach = 0.75 hp, ft = 29600. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 252.0 Rrho = 2260000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.4292                                 | 0.1442                                  | 0.0555                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.2477 |
| 0.0500         | *****  | 0.0700           | 0.4482 |
| 0.1100         | *****  | 0.1200           | 0.6119 |
| 0.1700         | *****  | 0.1800           | 0.7074 |
| 0.2200         | *****  | 0.2100           | 0.7652 |
| 0.2700         | *****  | 0.2700           | 0.8436 |
| 0.3200         | *****  | 0.3100           | 0.9057 |
| 0.3600         | *****  | 0.3700           | 0.9558 |
| 0.4100         | *****  | 0.4200           | 0.9903 |
| 0.5100         | *****  | 0.5300           | 1.0019 |
| 0.7200         | *****  | 0.7300           | 1.0034 |
| 0.9100         | *****  | 0.9400           | 1.0042 |
| 1.1100         | *****  | 1.1500           | 0.9959 |
| 1.3000         | *****  | 1.3500           | 0.9919 |
| 1.5300         | *****  | 1.5500           | 1.0016 |
| 1.7400         | *****  | 1.7500           | 1.0008 |
| 1.9400         | *****  | 1.9500           | 1.0046 |
| 2.1400         | *****  | 2.1600           | 1.0022 |
| 2.3500         | *****  | 2.3700           | 1.0011 |
| 2.5500         | *****  | 2.5800           | 1.0020 |

\*\*\*\*\* - no data

Flight 32 Test point 43

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 29900. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 250.1 Rnpu = 2241000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5338                        | 0.1817                         | 0.0718                     | 0.3 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5554 |
| 0.0500         | *****  | 0.0700           | 0.3474 |
| 0.1100         | *****  | 0.1200           | 0.3805 |
| 0.1700         | *****  | 0.1800           | 0.5667 |
| 0.2200         | *****  | 0.2100           | 0.6515 |
| 0.2700         | *****  | 0.2700           | 0.7461 |
| 0.3200         | *****  | 0.3100           | 0.8236 |
| 0.3600         | *****  | 0.3700           | 0.8891 |
| 0.4100         | *****  | 0.4200           | 0.9435 |
| 0.5100         | *****  | 0.5300           | 0.9983 |
| 0.7200         | *****  | 0.7300           | 1.0033 |
| 0.9100         | *****  | 0.9400           | 1.0041 |
| 1.1100         | *****  | 1.1500           | 0.9984 |
| 1.3000         | *****  | 1.3500           | 0.9936 |
| 1.5300         | *****  | 1.5500           | 1.0009 |
| 1.7400         | *****  | 1.7500           | 0.9986 |
| 1.9400         | *****  | 1.9500           | 1.0023 |
| 2.1400         | *****  | 2.1600           | 1.0011 |
| 2.3500         | *****  | 2.3700           | 0.9984 |
| 2.5500         | *****  | 2.5800           | 1.0009 |

\*\*\*\*\* - no data



Flight 32 Test point 44

Sweep, deg = 20.0 Mach = 0.76 hp, ft = 29900. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 252.2 Rnpu = 2247000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.6759                                 | 0.2056                                  | 0.0809                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.8064 |
| 0.0500         | *****  | 0.0700           | 0.7572 |
| 0.1100         | *****  | 0.1200           | 0.5539 |
| 0.1700         | *****  | 0.1800           | 0.2985 |
| 0.2200         | *****  | 0.2100           | 0.3231 |
| 0.2700         | *****  | 0.2700           | 0.5614 |
| 0.3200         | *****  | 0.3100           | 0.6903 |
| 0.3600         | *****  | 0.3700           | 0.7880 |
| 0.4100         | *****  | 0.4200           | 0.8732 |
| 0.5100         | *****  | 0.5300           | 0.9865 |
| 0.7200         | *****  | 0.7300           | 1.0043 |
| 0.9100         | *****  | 0.9400           | 1.0045 |
| 1.1100         | *****  | 1.1500           | 0.9974 |
| 1.3000         | *****  | 1.3500           | 0.9933 |
| 1.5300         | *****  | 1.5500           | 0.9997 |
| 1.7400         | *****  | 1.7500           | 0.9977 |
| 1.9400         | *****  | 1.9500           | 1.0019 |
| 2.1400         | *****  | 2.1600           | 1.0008 |
| 2.3500         | *****  | 2.3700           | 0.9988 |
| 2.5500         | *****  | 2.5800           | 1.0015 |

\*\*\*\*\* - no data

Flight 32 Test point 45

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 30500. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 240.9 Rrho = 2168000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.4533                        | 0.1656                         | 0.0628                     | 0.3 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5134 |
| 0.0500         | *****  | 0.0700           | 0.2530 |
| 0.1100         | *****  | 0.1200           | 0.4581 |
| 0.1700         | *****  | 0.1800           | 0.6237 |
| 0.2200         | *****  | 0.2100           | 0.7018 |
| 0.2700         | *****  | 0.2700           | 0.7948 |
| 0.3200         | *****  | 0.3100           | 0.8674 |
| 0.3600         | *****  | 0.3700           | 0.9289 |
| 0.4100         | *****  | 0.4200           | 0.9727 |
| 0.5100         | *****  | 0.5300           | 1.0022 |
| 0.7200         | *****  | 0.7300           | 1.0017 |
| 0.9100         | *****  | 0.9400           | 1.0054 |
| 1.1100         | *****  | 1.1500           | 0.9974 |
| 1.3000         | *****  | 1.3500           | 0.9970 |
| 1.5300         | *****  | 1.5500           | 1.0045 |
| 1.7400         | *****  | 1.7500           | 1.0023 |
| 1.9400         | *****  | 1.9500           | 1.0061 |
| 2.1400         | *****  | 2.1600           | 1.0035 |
| 2.3500         | *****  | 2.3700           | 1.0028 |
| 2.5500         | *****  | 2.5800           | 1.0044 |

\*\*\*\*\* - no data

Flight 32 Test point 46

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 30400. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -5.3 QBAR, lb/ft<sup>2</sup> = 240.9 Rrho = 2164000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5390                        | 0.1821                         | 0.0714                     | 0.3 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.7775 |
| 0.0500         | *****  | 0.0700           | 0.6486 |
| 0.1100         | *****  | 0.1200           | 0.2986 |
| 0.1700         | *****  | 0.1800           | 0.3974 |
| 0.2200         | *****  | 0.2100           | 0.5683 |
| 0.2700         | *****  | 0.2700           | 0.7066 |
| 0.3200         | *****  | 0.3100           | 0.7993 |
| 0.3600         | *****  | 0.3700           | 0.8774 |
| 0.4100         | *****  | 0.4200           | 0.9376 |
| 0.5100         | *****  | 0.5300           | 0.9957 |
| 0.7200         | *****  | 0.7300           | 0.9995 |
| 0.9100         | *****  | 0.9400           | 1.0028 |
| 1.1100         | *****  | 1.1500           | 0.9958 |
| 1.3000         | *****  | 1.3500           | 0.9933 |
| 1.5300         | *****  | 1.5500           | 1.0024 |
| 1.7400         | *****  | 1.7500           | 1.0010 |
| 1.9400         | *****  | 1.9500           | 1.0031 |
| 2.1400         | *****  | 2.1600           | 1.0026 |
| 2.3500         | *****  | 2.3700           | 1.0012 |
| 2.5500         | *****  | 2.5800           | 1.0027 |

\*\*\*\*\* - no data

Flight 32 Test point 47

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 272.4 Rrho = 2510000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.4336                                 | 0.1494                                  | 0.0547                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4445 |
| 0.0500         | *****  | 0.0700           | 0.1792 |
| 0.1100         | *****  | 0.1200           | 0.5517 |
| 0.1700         | *****  | 0.1800           | 0.6895 |
| 0.2200         | *****  | 0.2100           | 0.7646 |
| 0.2700         | *****  | 0.2700           | 0.8455 |
| 0.3200         | *****  | 0.3100           | 0.9076 |
| 0.3600         | *****  | 0.3700           | 0.9589 |
| 0.4100         | *****  | 0.4200           | 0.9889 |
| 0.5100         | *****  | 0.5300           | 1.0001 |
| 0.7200         | *****  | 0.7300           | 1.0016 |
| 0.9100         | *****  | 0.9400           | 1.0027 |
| 1.1100         | *****  | 1.1500           | 0.9982 |
| 1.3000         | *****  | 1.3500           | 0.9958 |
| 1.5300         | *****  | 1.5500           | 1.0031 |
| 1.7400         | *****  | 1.7500           | 1.0019 |
| 1.9400         | *****  | 1.9500           | 1.0012 |
| 2.1400         | *****  | 2.1600           | 1.0027 |
| 2.3500         | *****  | 2.3700           | 1.0010 |
| 2.5500         | *****  | 2.5800           | 1.0028 |

\*\*\*\*\* - no data

Flight 32 Test point 48

Sweep, deg = 20.0 Mach = 0.71 hp, ft = 24900. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = -4.9 QBAR, lb/ft<sup>2</sup> = 274.2 Rrho = 2540000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.4595                                 | 0.1746                                  | 0.0597                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.7662 |
| 0.0500         | *****  | 0.0700           | 0.6073 |
| 0.1100         | *****  | 0.1200           | 0.1001 |
| 0.1700         | *****  | 0.1800           | 0.4944 |
| 0.2200         | *****  | 0.2100           | 0.6343 |
| 0.2700         | *****  | 0.2700           | 0.7564 |
| 0.3200         | *****  | 0.3100           | 0.8426 |
| 0.3600         | *****  | 0.3700           | 0.9092 |
| 0.4100         | *****  | 0.4200           | 0.9620 |
| 0.5100         | *****  | 0.5300           | 0.9998 |
| 0.7200         | *****  | 0.7300           | 1.0040 |
| 0.9100         | *****  | 0.9400           | 1.0051 |
| 1.1100         | *****  | 1.1500           | 0.9991 |
| 1.3000         | *****  | 1.3500           | 0.9992 |
| 1.5300         | *****  | 1.5500           | 1.0052 |
| 1.7400         | *****  | 1.7500           | 1.0032 |
| 1.9400         | *****  | 1.9500           | 1.0067 |
| 2.1400         | *****  | 2.1600           | 1.0052 |
| 2.3500         | *****  | 2.3700           | 1.0039 |
| 2.5500         | *****  | 2.5800           | 1.0065 |

\*\*\*\*\* - no data

Flight 32 Test point 49

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 25100. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 266.3  $\rho$  V<sub>∞</sub><sup>2</sup> = 2495000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.4185                                 | 0.1439                                  | 0.0540                              | 0.3 X/c                     |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.4031             |
| 0.0500         | *****              | 0.0700           | 0.2547             |
| 0.1100         | *****              | 0.1200           | 0.5737             |
| 0.1700         | *****              | 0.1800           | 0.7026             |
| 0.2200         | *****              | 0.2100           | 0.7763             |
| 0.2700         | *****              | 0.2700           | 0.8573             |
| 0.3200         | *****              | 0.3100           | 0.9181             |
| 0.3600         | *****              | 0.3700           | 0.9655             |
| 0.4100         | *****              | 0.4200           | 0.9962             |
| 0.5100         | *****              | 0.5300           | 1.0014             |
| 0.7200         | *****              | 0.7300           | 1.0051             |
| 0.9100         | *****              | 0.9400           | 1.0054             |
| 1.1100         | *****              | 1.1500           | 1.0008             |
| 1.3000         | *****              | 1.3500           | 0.9994             |
| 1.5300         | *****              | 1.5500           | 1.0050             |
| 1.7400         | *****              | 1.7500           | 1.0031             |
| 1.9400         | *****              | 1.9500           | 1.0049             |
| 2.1400         | *****              | 2.1600           | 1.0053             |
| 2.3500         | *****              | 2.3700           | 1.0024             |
| 2.5500         | *****              | 2.5800           | 1.0054             |

\*\*\*\*\* - no data

Flight 32 Test point 50

Sweep, deg = 20.0 Mach = 0.71 hp, ft = 24800. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 275.4 Rrho = 2537000.

|                     | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|---------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake |  |   |                                     |                             |
| Outboard station    | 0.4508                                 | 0.1634                                  | 0.0610                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.7409 |
| 0.0500         | *****  | 0.0700           | 0.5639 |
| 0.1100         | *****  | 0.1200           | 0.2061 |
| 0.1700         | *****  | 0.1800           | 0.5432 |
| 0.2200         | *****  | 0.2100           | 0.6671 |
| 0.2700         | *****  | 0.2700           | 0.7825 |
| 0.3200         | *****  | 0.3100           | 0.8646 |
| 0.3600         | *****  | 0.3700           | 0.9261 |
| 0.4100         | *****  | 0.4200           | 0.9729 |
| 0.5100         | *****  | 0.5300           | 0.9997 |
| 0.7200         | *****  | 0.7300           | 1.0023 |
| 0.9100         | *****  | 0.9400           | 1.0051 |
| 1.1100         | *****  | 1.1500           | 0.9982 |
| 1.3000         | *****  | 1.3500           | 0.9966 |
| 1.5300         | *****  | 1.5500           | 1.0039 |
| 1.7400         | *****  | 1.7500           | 1.0026 |
| 1.9400         | *****  | 1.9500           | 1.0046 |
| 2.1400         | *****  | 2.1600           | 1.0030 |
| 2.3500         | *****  | 2.3700           | 1.0057 |
| 2.5500         | *****  | 2.5800           | 1.0055 |

\*\*\*\*\* - no data

Flight 32 Test point 51

Sweep, deg = 27.7 Mach = 0.70 hp, ft = 24900. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 270.3 Rrho = 2509000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.4059                        | 0.1046                         | 0.0478                     | 0.3 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5443 |
| 0.0500         | *****  | 0.0700           | 0.6162 |
| 0.1100         | *****  | 0.1200           | 0.7095 |
| 0.1700         | *****  | 0.1800           | 0.7849 |
| 0.2200         | *****  | 0.2100           | 0.8394 |
| 0.2700         | *****  | 0.2700           | 0.8997 |
| 0.3200         | *****  | 0.3100           | 0.9500 |
| 0.3600         | *****  | 0.3700           | 0.9825 |
| 0.4100         | *****  | 0.4200           | 0.9986 |
| 0.5100         | *****  | 0.5300           | 1.0047 |
| 0.7200         | *****  | 0.7300           | 1.0024 |
| 0.9100         | *****  | 0.9400           | 1.0016 |
| 1.1100         | *****  | 1.1500           | 0.9984 |
| 1.3000         | *****  | 1.3500           | 0.9979 |
| 1.5300         | *****  | 1.5500           | 1.0010 |
| 1.7400         | *****  | 1.7500           | 0.9999 |
| 1.9400         | *****  | 1.9500           | 1.0056 |
| 2.1400         | *****  | 2.1600           | 1.0032 |
| 2.3500         | *****  | 2.3700           | 1.0022 |
| 2.5500         | *****  | 2.5800           | 1.0019 |

\*\*\*\*\* - no data



Flight 32 Test point 58

Sweep, deg = 27.7 Mach = 0.70 hp, ft = 25600. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 263.1 Rnpu = 2451000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.3819                        | 0.1001                         | 0.0462                     | 0.3 X/c             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.5651             |
| 0.0500         | *****              | 0.0700           | 0.6299             |
| 0.1100         | *****              | 0.1200           | 0.7204             |
| 0.1700         | *****              | 0.1800           | 0.7913             |
| 0.2200         | *****              | 0.2100           | 0.8429             |
| 0.2700         | *****              | 0.2700           | 0.9077             |
| 0.3200         | *****              | 0.3100           | 0.9545             |
| 0.3600         | *****              | 0.3700           | 0.9858             |
| 0.4100         | *****              | 0.4200           | 0.9983             |
| 0.5100         | *****              | 0.5300           | 1.0027             |
| 0.7200         | *****              | 0.7300           | 1.0027             |
| 0.9100         | *****              | 0.9400           | 1.0029             |
| 1.1100         | *****              | 1.1500           | 0.9973             |
| 1.3000         | *****              | 1.3500           | 0.9957             |
| 1.5300         | *****              | 1.5500           | 1.0033             |
| 1.7400         | *****              | 1.7500           | 1.0015             |
| 1.9400         | *****              | 1.9500           | 1.0037             |
| 2.1400         | *****              | 2.1600           | 1.0016             |
| 2.3500         | *****              | 2.3700           | 1.0012             |
| 2.5500         | *****              | 2.5800           | 1.0033             |

\*\*\*\*\* - no data

Flight 32 Test point 53

Sweep, deg = 31.6 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 2.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 269.0 R<sub>rho</sub> = 2517000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7204                                 | 0.1542                                  | 0.0783                              | 0.3 x/c                     |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.5615             |
| 0.0500         | *****              | 0.0700           | 0.5947             |
| 0.1100         | *****              | 0.1200           | 0.6603             |
| 0.1700         | *****              | 0.1800           | 0.7082             |
| 0.2200         | *****              | 0.2100           | 0.7392             |
| 0.2700         | *****              | 0.2700           | 0.7899             |
| 0.3200         | *****              | 0.3100           | 0.8297             |
| 0.3600         | *****              | 0.3700           | 0.8645             |
| 0.4100         | *****              | 0.4200           | 0.8987             |
| 0.5100         | *****              | 0.5300           | 0.9630             |
| 0.7200         | *****              | 0.7300           | 1.0016             |
| 0.9100         | *****              | 0.9400           | 1.0035             |
| 1.1100         | *****              | 1.1500           | 0.9945             |
| 1.3000         | *****              | 1.3500           | 0.9937             |
| 1.5300         | *****              | 1.5500           | 1.0016             |
| 1.7400         | *****              | 1.7500           | 0.9995             |
| 1.9400         | *****              | 1.9500           | 1.0022             |
| 2.1400         | *****              | 2.1600           | 1.0024             |
| 2.3500         | *****              | 2.3700           | 1.0007             |
| 2.5500         | *****              | 2.5800           | 1.0004             |

\*\*\*\*\* = no data

Flight 32 Test point 54

Sweep, deg = 31.6 Mach = 0.71 hp, ft = 25200. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.2  $\bar{Q}$ BAR, lb/ft<sup>2</sup> = 270.5  $R_{npu}$  = 2513000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5910                                 | 0.1461                                  | 0.0730                              | 0.3 x/c                     |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.5701             |
| 0.0500         | *****              | 0.0700           | 0.6044             |
| 0.1100         | *****              | 0.1200           | 0.6742             |
| 0.1700         | *****              | 0.1800           | 0.7191             |
| 0.2200         | *****              | 0.2100           | 0.7508             |
| 0.2700         | *****              | 0.2700           | 0.7994             |
| 0.3200         | *****              | 0.3100           | 0.8403             |
| 0.3600         | *****              | 0.3700           | 0.8748             |
| 0.4100         | *****              | 0.4200           | 0.9103             |
| 0.5100         | *****              | 0.5300           | 0.9718             |
| 0.7200         | *****              | 0.7300           | 1.0043             |
| 0.9100         | *****              | 0.9400           | 1.0074             |
| 1.1100         | *****              | 1.1500           | 0.9990             |
| 1.3000         | *****              | 1.3500           | 0.9974             |
| 1.5300         | *****              | 1.5500           | 1.0038             |
| 1.7400         | *****              | 1.7500           | 1.0024             |
| 1.9400         | *****              | 1.9500           | 1.0047             |
| 2.1400         | *****              | 2.1600           | 1.0037             |
| 2.3500         | *****              | 2.3700           | 1.0024             |
| 2.5500         | *****              | 2.5800           | 1.0031             |

\*\*\*\*\* - no data

Flight 32 Test point 55

Sweep, deg = 31.6 Mach = 0.70 hp, ft = 25400. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 264.4 Rrho = 2471000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.6093                        | 0.1533                         | 0.0765                     | 0.3 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5595 |
| 0.0500         | *****  | 0.0700           | 0.5915 |
| 0.1100         | *****  | 0.1200           | 0.6589 |
| 0.1700         | *****  | 0.1800           | 0.7064 |
| 0.2200         | *****  | 0.2100           | 0.7375 |
| 0.2700         | *****  | 0.2700           | 0.7882 |
| 0.3200         | *****  | 0.3100           | 0.8294 |
| 0.3600         | *****  | 0.3700           | 0.8646 |
| 0.4100         | *****  | 0.4200           | 0.9012 |
| 0.5100         | *****  | 0.5300           | 0.9624 |
| 0.7200         | *****  | 0.7300           | 1.0012 |
| 0.9100         | *****  | 0.9400           | 1.0017 |
| 1.1100         | *****  | 1.1500           | 0.9972 |
| 1.3000         | *****  | 1.3500           | 0.9934 |
| 1.5300         | *****  | 1.5500           | 1.0007 |
| 1.7400         | *****  | 1.7500           | 1.0003 |
| 1.9400         | *****  | 1.9500           | 1.0036 |
| 2.1400         | *****  | 2.1600           | 0.9996 |
| 2.3500         | *****  | 2.3700           | 1.0016 |
| 2.5500         | *****  | 2.5800           | 1.0006 |

\*\*\*\*\* - no data

Flight 32 Test point 56

Sweep, deg = 24.9 Mach = 0.75 hp, ft = 25000. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 308.2 Rrho = 2715000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.4447                                 | 0.1401                                  | 0.0566                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.2998 |
| 0.0500         | *****  | 0.0700           | 0.4743 |
| 0.1100         | *****  | 0.1200           | 0.6189 |
| 0.1700         | *****  | 0.1800           | 0.7123 |
| 0.2200         | *****  | 0.2100           | 0.7731 |
| 0.2700         | *****  | 0.2700           | 0.8475 |
| 0.3200         | *****  | 0.3100           | 0.9060 |
| 0.3600         | *****  | 0.3700           | 0.9519 |
| 0.4100         | *****  | 0.4200           | 0.9841 |
| 0.5100         | *****  | 0.5300           | 1.0016 |
| 0.7200         | *****  | 0.7300           | 1.0014 |
| 0.9100         | *****  | 0.9400           | 1.0042 |
| 1.1100         | *****  | 1.1500           | 0.9990 |
| 1.3000         | *****  | 1.3500           | 0.9978 |
| 1.5300         | *****  | 1.5500           | 1.0033 |
| 1.7400         | *****  | 1.7500           | 1.0004 |
| 1.9400         | *****  | 1.9500           | 1.0046 |
| 2.1400         | *****  | 2.1600           | 1.0003 |
| 2.3500         | *****  | 2.3700           | 1.0006 |
| 2.5500         | *****  | 2.5800           | 1.0029 |

\*\*\*\*\* - no data

Flight 32 Test point 57

Sweep, deg = 24.9 Mach = 0.75 hp, ft = 25400. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 306.0 Rrho = 2672000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.4408                                 | 0.1401                                  | 0.0546                              | 0.3 x/c                     |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.2501             |
| 0.0500         | *****              | 0.0700           | 0.4623             |
| 0.1100         | *****              | 0.1200           | 0.6207             |
| 0.1700         | *****              | 0.1800           | 0.7147             |
| 0.2200         | *****              | 0.2100           | 0.7831             |
| 0.2700         | *****              | 0.2700           | 0.8576             |
| 0.3200         | *****              | 0.3100           | 0.9125             |
| 0.3600         | *****              | 0.3700           | 0.9562             |
| 0.4100         | *****              | 0.4200           | 0.9872             |
| 0.5100         | *****              | 0.5300           | 1.0019             |
| 0.7200         | *****              | 0.7300           | 1.0014             |
| 0.9100         | *****              | 0.9400           | 1.0053             |
| 1.1100         | *****              | 1.1500           | 0.9978             |
| 1.3000         | *****              | 1.3500           | 0.9958             |
| 1.5300         | *****              | 1.5500           | 1.0011             |
| 1.7400         | *****              | 1.7500           | 1.0010             |
| 1.9400         | *****              | 1.9500           | 1.0027             |
| 2.1400         | *****              | 2.1600           | 1.0025             |
| 2.3500         | *****              | 2.3700           | 1.0009             |
| 2.5500         | *****              | 2.5800           | 1.0024             |

\*\*\*\*\* - no data

Flight 32 Test point 58

Sweep, deg = 24.9 Mach = 0.76 hp, ft = 25000. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 314.6 Rrho = 2742000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.4461                        | 0.1484                         | 0.0563                     | 0.3 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.1992 |
| 0.0500         | *****  | 0.0700           | 0.4352 |
| 0.1100         | *****  | 0.1200           | 0.6030 |
| 0.1700         | *****  | 0.1800           | 0.7002 |
| 0.2200         | *****  | 0.2100           | 0.7650 |
| 0.2700         | *****  | 0.2700           | 0.8357 |
| 0.3200         | *****  | 0.3100           | 0.8965 |
| 0.3600         | *****  | 0.3700           | 0.9474 |
| 0.4100         | *****  | 0.4200           | 0.9827 |
| 0.5100         | *****  | 0.5300           | 1.0028 |
| 0.7200         | *****  | 0.7300           | 1.0024 |
| 0.9100         | *****  | 0.9400           | 1.0036 |
| 1.1100         | *****  | 1.1500           | 0.9974 |
| 1.3000         | *****  | 1.3500           | 0.9967 |
| 1.5300         | *****  | 1.5500           | 1.0032 |
| 1.7400         | *****  | 1.7500           | 1.0018 |
| 1.9400         | *****  | 1.9500           | 1.0029 |
| 2.1400         | *****  | 2.1600           | 1.0026 |
| 2.3500         | *****  | 2.3700           | 1.0029 |
| 2.5500         | *****  | 2.5800           | 1.0009 |

\*\*\*\*\* - no data

Flight 32 Test point 59

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 25000. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 307.9 Rrho = 2709000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.4431                                 | 0.1609                                  | 0.0595                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4911 |
| 0.0500         | *****  | 0.0700           | 0.2080 |
| 0.1100         | *****  | 0.1200           | 0.4844 |
| 0.1700         | *****  | 0.1800           | 0.6429 |
| 0.2200         | *****  | 0.2100           | 0.7220 |
| 0.2700         | *****  | 0.2700           | 0.8118 |
| 0.3200         | *****  | 0.3100           | 0.8829 |
| 0.3600         | *****  | 0.3700           | 0.9427 |
| 0.4100         | *****  | 0.4200           | 0.9826 |
| 0.5100         | *****  | 0.5300           | 1.0015 |
| 0.7200         | *****  | 0.7300           | 1.0028 |
| 0.9100         | *****  | 0.9400           | 1.0053 |
| 1.1100         | *****  | 1.1500           | 0.9978 |
| 1.3000         | *****  | 1.3500           | 0.9966 |
| 1.5300         | *****  | 1.5500           | 1.0027 |
| 1.7400         | *****  | 1.7500           | 1.0007 |
| 1.9400         | *****  | 1.9500           | 1.0033 |
| 2.1400         | *****  | 2.1600           | 1.0016 |
| 2.3500         | *****  | 2.3700           | 1.0023 |
| 2.5500         | *****  | 2.5800           | 1.0028 |

\*\*\*\*\* - no data



Flight 32 Test point 60

Sweep, deg = 20.1 Mach = 0.75 hp, ft = 24900. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 308.4 Rrho = 2711000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5389                                 | 0.1818                                  | 0.0707                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.7638 |
| 0.0500         | *****  | 0.0700           | 0.6302 |
| 0.1100         | *****  | 0.1200           | 0.2752 |
| 0.1700         | *****  | 0.1800           | 0.4130 |
| 0.2200         | *****  | 0.2100           | 0.5824 |
| 0.2700         | *****  | 0.2700           | 0.7148 |
| 0.3200         | *****  | 0.3100           | 0.8056 |
| 0.3600         | *****  | 0.3700           | 0.8810 |
| 0.4100         | *****  | 0.4200           | 0.9412 |
| 0.5100         | *****  | 0.5300           | 0.9960 |
| 0.7200         | *****  | 0.7300           | 1.0017 |
| 0.9100         | *****  | 0.9400           | 1.0013 |
| 1.1100         | *****  | 1.1500           | 0.9971 |
| 1.3000         | *****  | 1.3500           | 0.9941 |
| 1.5300         | *****  | 1.5500           | 1.0029 |
| 1.7400         | *****  | 1.7500           | 0.9989 |
| 1.9400         | *****  | 1.9500           | 1.0033 |
| 2.1400         | *****  | 2.1600           | 1.0023 |
| 2.3500         | *****  | 2.3700           | 1.0011 |
| 2.5500         | *****  | 2.5800           | 1.0014 |

\*\*\*\*\* - no data

Flight 32 Test point 61

Sweep, deg = 20.1 Mach = 0.75 hp, ft = 25300. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 304.6 Rnpu = 2670000.

|                       |                               |                                |                            |                     |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5341                        | 0.1904                         | 0.0742                     | 0.3 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5799 |
| 0.0500         | *****  | 0.0700           | 0.4163 |
| 0.1100         | *****  | 0.1200           | 0.3053 |
| 0.1700         | *****  | 0.1800           | 0.5199 |
| 0.2200         | *****  | 0.2100           | 0.6137 |
| 0.2700         | *****  | 0.2700           | 0.7213 |
| 0.3200         | *****  | 0.3100           | 0.8030 |
| 0.3600         | *****  | 0.3700           | 0.8721 |
| 0.4100         | *****  | 0.4200           | 0.9326 |
| 0.5100         | *****  | 0.5300           | 0.9978 |
| 0.7200         | *****  | 0.7300           | 1.0028 |
| 0.9100         | *****  | 0.9400           | 1.0035 |
| 1.1100         | *****  | 1.1500           | 0.9997 |
| 1.3000         | *****  | 1.3500           | 0.9961 |
| 1.5300         | *****  | 1.5500           | 1.0000 |
| 1.7400         | *****  | 1.7500           | 0.9988 |
| 1.9400         | *****  | 1.9500           | 1.0005 |
| 2.1400         | *****  | 2.1600           | 1.0002 |
| 2.3500         | *****  | 2.3700           | 1.0001 |
| 2.5500         | *****  | 2.5800           | 1.0004 |

\*\*\*\*\* - no data

Flight 32 Test point 62

Sweep, deg = 20.0 Mach = 0.76 hp, ft = 25300. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 309.0 Rnpu = 2710000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7077                                 | 0.2254                                  | 0.0795                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.7867 |
| 0.0500         | *****  | 0.0700           | 0.7771 |
| 0.1100         | *****  | 0.1200           | 0.6263 |
| 0.1700         | *****  | 0.1800           | 0.4492 |
| 0.2200         | *****  | 0.2100           | 0.0157 |
| 0.2700         | *****  | 0.2700           | 0.4752 |
| 0.3200         | *****  | 0.3100           | 0.6242 |
| 0.3600         | *****  | 0.3700           | 0.7429 |
| 0.4100         | *****  | 0.4200           | 0.8338 |
| 0.5100         | *****  | 0.5300           | 0.9740 |
| 0.7200         | *****  | 0.7300           | 1.0028 |
| 0.9100         | *****  | 0.9400           | 1.0049 |
| 1.1100         | *****  | 1.1500           | 0.9996 |
| 1.3000         | *****  | 1.3500           | 0.9973 |
| 1.5300         | *****  | 1.5500           | 1.0000 |
| 1.7400         | *****  | 1.7500           | 0.9989 |
| 1.9400         | *****  | 1.9500           | 0.9982 |
| 2.1400         | *****  | 2.1600           | 0.9988 |
| 2.3500         | *****  | 2.3700           | 0.9995 |
| 2.5500         | *****  | 2.5800           | 1.0000 |

\*\*\*\*\* - no data

Flight 32 Test point 63

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 25000. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 311.2 Rrho = 2724000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5373                        | 0.1804                         | 0.0703                     | 0.3 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.7687 |
| 0.0500         | *****  | 0.0700           | 0.6394 |
| 0.1100         | *****  | 0.1200           | 0.2838 |
| 0.1700         | *****  | 0.1800           | 0.4120 |
| 0.2200         | *****  | 0.2100           | 0.5809 |
| 0.2700         | *****  | 0.2700           | 0.7131 |
| 0.3200         | *****  | 0.3100           | 0.8067 |
| 0.3600         | *****  | 0.3700           | 0.8848 |
| 0.4100         | *****  | 0.4200           | 0.9437 |
| 0.5100         | *****  | 0.5300           | 0.9968 |
| 0.7200         | *****  | 0.7300           | 0.9999 |
| 0.9100         | *****  | 0.9400           | 1.0041 |
| 1.1100         | *****  | 1.1500           | 0.9961 |
| 1.3000         | *****  | 1.3500           | 0.9960 |
| 1.5300         | *****  | 1.5500           | 1.0011 |
| 1.7400         | *****  | 1.7500           | 0.9997 |
| 1.9400         | *****  | 1.9500           | 1.0028 |
| 2.1400         | *****  | 2.1600           | 1.0004 |
| 2.3500         | *****  | 2.3700           | 1.0006 |
| 2.5500         | *****  | 2.5800           | 1.0023 |

\*\*\*\*\* = no data

Flight 32 Test point 64

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25100. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 349.7 Rnpu = 2883000.

|                       |                               |                                |                            |                     |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5331                        | 0.2262                         | 0.0744                     | 0.3 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5625 |
| 0.0500         | *****  | 0.0700           | 0.5174 |
| 0.1100         | *****  | 0.1200           | 0.3034 |
| 0.1700         | *****  | 0.1800           | 0.2604 |
| 0.2200         | *****  | 0.2100           | 0.4537 |
| 0.2700         | *****  | 0.2700           | 0.6131 |
| 0.3200         | *****  | 0.3100           | 0.7308 |
| 0.3600         | *****  | 0.3700           | 0.8366 |
| 0.4100         | *****  | 0.4200           | 0.9178 |
| 0.5100         | *****  | 0.5300           | 0.9979 |
| 0.7200         | *****  | 0.7300           | 1.0021 |
| 0.9100         | *****  | 0.9400           | 1.0037 |
| 1.1100         | *****  | 1.1500           | 0.9995 |
| 1.3000         | *****  | 1.3500           | 0.9984 |
| 1.5300         | *****  | 1.5500           | 1.0019 |
| 1.7400         | *****  | 1.7500           | 1.0006 |
| 1.9400         | *****  | 1.9500           | 1.0025 |
| 2.1400         | *****  | 2.1600           | 0.9982 |
| 2.3500         | *****  | 2.3700           | 0.9975 |
| 2.5500         | *****  | 2.5800           | 0.9977 |

\*\*\*\*\* - no data

Flight 32 Test point 65

Sweep, deg = 20.1 Mach = 0.81 hp, ft = 25000. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -4.9 QBAR, lb/ft<sup>2</sup> = 359.7 R<sub>pu</sub> = 2919000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | *****                      | *****                       | *****                   | none             |
| Outboard station rake | 0.7162                     | 0.2484                      | 0.0832                  | 0.3 X/c          |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.6593             |
| 0.0500         | *****              | 0.0700           | 0.6536             |
| 0.1100         | *****              | 0.1200           | 0.4969             |
| 0.1700         | *****              | 0.1800           | 0.3316             |
| 0.2200         | *****              | 0.2100           | 0.1697             |
| 0.2700         | *****              | 0.2700           | 0.4622             |
| 0.3200         | *****              | 0.3100           | 0.6133             |
| 0.3600         | *****              | 0.3700           | 0.7371             |
| 0.4100         | *****              | 0.4200           | 0.8414             |
| 0.5100         | *****              | 0.5300           | 0.9807             |
| 0.7200         | *****              | 0.7300           | 1.0012             |
| 0.9100         | *****              | 0.9400           | 1.0025             |
| 1.1100         | *****              | 1.1500           | 0.9991             |
| 1.3000         | *****              | 1.3500           | 0.9984             |
| 1.5300         | *****              | 1.5500           | 1.0021             |
| 1.7400         | *****              | 1.7500           | 1.0017             |
| 1.9400         | *****              | 1.9500           | 1.0007             |
| 2.1400         | *****              | 2.1600           | 0.9991             |
| 2.3500         | *****              | 2.3700           | 0.9968             |
| 2.5500         | *****              | 2.5800           | 0.9983             |

\*\*\*\*\* - no data

Flight 32 Test point 66

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 354.8 Rrho = 2920000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5349                                 | 0.2317                                  | 0.0747                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5482 |
| 0.0500         | *****  | 0.0700           | 0.5042 |
| 0.1100         | *****  | 0.1200           | 0.2863 |
| 0.1700         | *****  | 0.1800           | 0.2681 |
| 0.2200         | *****  | 0.2100           | 0.4519 |
| 0.2700         | *****  | 0.2700           | 0.6090 |
| 0.3200         | *****  | 0.3100           | 0.7257 |
| 0.3600         | *****  | 0.3700           | 0.8278 |
| 0.4100         | *****  | 0.4200           | 0.9083 |
| 0.5100         | *****  | 0.5300           | 0.9964 |
| 0.7200         | *****  | 0.7300           | 1.0033 |
| 0.9100         | *****  | 0.9400           | 1.0047 |
| 1.1100         | *****  | 1.1500           | 1.0010 |
| 1.3000         | *****  | 1.3500           | 0.9993 |
| 1.5300         | *****  | 1.5500           | 1.0013 |
| 1.7400         | *****  | 1.7500           | 1.0013 |
| 1.9400         | *****  | 1.9500           | 1.0029 |
| 2.1400         | *****  | 2.1600           | 0.9979 |
| 2.3500         | *****  | 2.3700           | 0.9960 |
| 2.5500         | *****  | 2.5800           | 0.9958 |

\*\*\*\*\* - no data

Flight 32 Test point 67

Sweep, deg = 20.0 Mach = 0.81 hp, ft = 24900. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -5.3 QBAR, lb/ft<sup>2</sup> = 358.8 Rrho = 2948000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7143                                 | 0.2550                                  | 0.0842                              | 0.3 x/c                     |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.6593             |
| 0.0500         | *****              | 0.0700           | 0.6488             |
| 0.1100         | *****              | 0.1200           | 0.4973             |
| 0.1700         | *****              | 0.1800           | 0.3415             |
| 0.2200         | *****              | 0.2100           | 0.1480             |
| 0.2700         | *****              | 0.2700           | 0.4444             |
| 0.3200         | *****              | 0.3100           | 0.5968             |
| 0.3600         | *****              | 0.3700           | 0.7246             |
| 0.4100         | *****              | 0.4200           | 0.8289             |
| 0.5100         | *****              | 0.5300           | 0.9742             |
| 0.7200         | *****              | 0.7300           | 1.0019             |
| 0.9100         | *****              | 0.9400           | 1.0032             |
| 1.1100         | *****              | 1.1500           | 0.9996             |
| 1.3000         | *****              | 1.3500           | 0.9996             |
| 1.5300         | *****              | 1.5500           | 1.0017             |
| 1.7400         | *****              | 1.7500           | 1.0009             |
| 1.9400         | *****              | 1.9500           | 1.0006             |
| 2.1400         | *****              | 2.1600           | 0.9994             |
| 2.3500         | *****              | 2.3700           | 0.9959             |
| 2.5500         | *****              | 2.5800           | 0.9971             |

\*\*\*\*\* - no data



Flight 32 Test point 68

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 355.4 Rrho = 2936000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7196                                 | 0.3338                                  | 0.0819                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.1325 |
| 0.0500         | *****  | 0.0700           | 0.1520 |
| 0.1100         | *****  | 0.1200           | 0.1339 |
| 0.1700         | *****  | 0.1800           | 0.1987 |
| 0.2200         | *****  | 0.2100           | 0.2647 |
| 0.2700         | *****  | 0.2700           | 0.3974 |
| 0.3200         | *****  | 0.3100           | 0.5076 |
| 0.3600         | *****  | 0.3700           | 0.6296 |
| 0.4100         | *****  | 0.4200           | 0.7453 |
| 0.5100         | *****  | 0.5300           | 0.9288 |
| 0.7200         | *****  | 0.7300           | 1.0035 |
| 0.9100         | *****  | 0.9400           | 1.0047 |
| 1.1100         | *****  | 1.1500           | 1.0018 |
| 1.3000         | *****  | 1.3500           | 0.9999 |
| 1.5300         | *****  | 1.5500           | 1.0025 |
| 1.7400         | *****  | 1.7500           | 1.0010 |
| 1.9400         | *****  | 1.9500           | 1.0016 |
| 2.1400         | *****  | 2.1600           | 0.9990 |
| 2.3500         | *****  | 2.3700           | 0.9944 |
| 2.5500         | *****  | 2.5800           | 0.9918 |

\*\*\*\*\* - no data

Flight 32 Test point 69

Sweep, deg = 20.0 Mach = 0.81 hp, ft = 25300. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -5.3 QBAR, lb/ft<sup>2</sup> = 355.2 Rrho = 2916000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7110                                 | 0.2736                                  | 0.0861                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.6004 |
| 0.0500         | *****  | 0.0700           | 0.5916 |
| 0.1100         | *****  | 0.1200           | 0.4423 |
| 0.1700         | *****  | 0.1800           | 0.3060 |
| 0.2200         | *****  | 0.2100           | 0.1326 |
| 0.2700         | *****  | 0.2700           | 0.4260 |
| 0.3200         | *****  | 0.3100           | 0.5721 |
| 0.3600         | *****  | 0.3700           | 0.6994 |
| 0.4100         | *****  | 0.4200           | 0.8022 |
| 0.5100         | *****  | 0.5300           | 0.9636 |
| 0.7200         | *****  | 0.7300           | 1.0033 |
| 0.9100         | *****  | 0.9400           | 1.0037 |
| 1.1100         | *****  | 1.1500           | 1.0015 |
| 1.3000         | *****  | 1.3500           | 1.0006 |
| 1.5300         | *****  | 1.5500           | 1.0034 |
| 1.7400         | *****  | 1.7500           | 1.0019 |
| 1.9400         | *****  | 1.9500           | 1.0026 |
| 2.1400         | *****  | 2.1600           | 0.9967 |
| 2.3500         | *****  | 2.3700           | 0.9942 |
| 2.5500         | *****  | 2.5800           | 0.9921 |

\*\*\*\*\* - no data

Flight 32 Test point 70

Sweep, deg = 25.4 Mach = 0.81 hp, ft = 25000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 357.4 Rnpu = 2918000.

|                       | Boundary layer height, In. | Displacement thickness, In. | Momentum thickness, In. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | *****                      | *****                       | *****                   | none             |
| Outboard station rake | 0.7185                     | 0.2937                      | 0.0845                  | 0.3 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, In.         | U/Umax | Y, In.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.0873 |
| 0.0500         | *****  | 0.0700           | 0.1309 |
| 0.1100         | *****  | 0.1200           | 0.2684 |
| 0.1700         | *****  | 0.1800           | 0.3702 |
| 0.2200         | *****  | 0.2100           | 0.4296 |
| 0.2700         | *****  | 0.2700           | 0.5451 |
| 0.3200         | *****  | 0.3100           | 0.6377 |
| 0.3600         | *****  | 0.3700           | 0.7258 |
| 0.4100         | *****  | 0.4200           | 0.8069 |
| 0.5100         | *****  | 0.5300           | 0.9301 |
| 0.7200         | *****  | 0.7300           | 1.0038 |
| 0.9100         | *****  | 0.9400           | 1.0057 |
| 1.1100         | *****  | 1.1500           | 1.0017 |
| 1.3000         | *****  | 1.3500           | 1.0003 |
| 1.5300         | *****  | 1.5500           | 1.0028 |
| 1.7400         | *****  | 1.7500           | 1.0021 |
| 1.9400         | *****  | 1.9500           | 1.0016 |
| 2.1400         | *****  | 2.1600           | 0.9989 |
| 2.3500         | *****  | 2.3700           | 0.9927 |
| 2.5500         | *****  | 2.5800           | 0.9903 |

\*\*\*\*\* - no data

Flight 32 Test point 71

Sweep, deg = 25.4 Mach = 0.81 hp, ft = 25000, Angle of attack, deg = 0.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 359.2 Rrho = 2946000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7177                                 | 0.2384                                  | 0.0811                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4080 |
| 0.0500         | *****  | 0.0700           | 0.2984 |
| 0.1100         | *****  | 0.1200           | 0.2828 |
| 0.1700         | *****  | 0.1800           | 0.4574 |
| 0.2200         | *****  | 0.2100           | 0.5548 |
| 0.2700         | *****  | 0.2700           | 0.6642 |
| 0.3200         | *****  | 0.3100           | 0.7467 |
| 0.3600         | *****  | 0.3700           | 0.8186 |
| 0.4100         | *****  | 0.4200           | 0.8761 |
| 0.5100         | *****  | 0.5300           | 0.9649 |
| 0.7200         | *****  | 0.7300           | 1.0020 |
| 0.9100         | *****  | 0.9400           | 1.0018 |
| 1.1100         | *****  | 1.1500           | 0.9991 |
| 1.3000         | *****  | 1.3500           | 0.9979 |
| 1.5300         | *****  | 1.5500           | 1.0010 |
| 1.7400         | *****  | 1.7500           | 0.9999 |
| 1.9400         | *****  | 1.9500           | 1.0022 |
| 2.1400         | *****  | 2.1600           | 1.0006 |
| 2.3500         | *****  | 2.3700           | 0.9980 |
| 2.5500         | *****  | 2.5800           | 0.9976 |

\*\*\*\*\* - no data

Flight 32 Test point 72

Sweep, deg = 25.4 Mach = 0.81 hp, ft = 25100. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 356.3 Rnpu = 2926000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none<br>0.3 x/c |
|-----------------------|--|---|-------------------------------------|--|
| Middle station rake   |  |   |                                     |  |
| Outboard station rake | 0.7141                                 | 0.2372                                  | 0.0792                              |  |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.4028             |
| 0.0500         | *****              | 0.0700           | 0.2989             |
| 0.1100         | *****              | 0.1200           | 0.2805             |
| 0.1700         | *****              | 0.1800           | 0.4574             |
| 0.2200         | *****              | 0.2100           | 0.5598             |
| 0.2700         | *****              | 0.2700           | 0.6647             |
| 0.3200         | *****              | 0.3100           | 0.7482             |
| 0.3600         | *****              | 0.3700           | 0.8210             |
| 0.4100         | *****              | 0.4200           | 0.8816             |
| 0.5100         | *****              | 0.5300           | 0.9721             |
| 0.7200         | *****              | 0.7300           | 1.0021             |
| 0.9100         | *****              | 0.9400           | 1.0022             |
| 1.1100         | *****              | 1.1500           | 0.9994             |
| 1.3000         | *****              | 1.3500           | 0.9979             |
| 1.5300         | *****              | 1.5500           | 1.0018             |
| 1.7400         | *****              | 1.7500           | 1.0011             |
| 1.9400         | *****              | 1.9500           | 1.0028             |
| 2.1400         | *****              | 2.1600           | 0.9993             |
| 2.3500         | *****              | 2.3700           | 0.9975             |
| 2.5500         | *****              | 2.5800           | 0.9958             |

\*\*\*\*\* - no data

Flight 32 Test point 73

Sweep, deg = 30.5 Mach = 0.80 hp, ft = 25200. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 348.1 Rrho = 2884000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7661                                 | 0.3148                                  | 0.1072                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.2245 |
| 0.0500         | *****  | 0.0700           | 0.2491 |
| 0.1100         | *****  | 0.1200           | 0.3199 |
| 0.1700         | *****  | 0.1800           | 0.3683 |
| 0.2200         | *****  | 0.2100           | 0.4124 |
| 0.2700         | *****  | 0.2700           | 0.4870 |
| 0.3200         | *****  | 0.3100           | 0.5629 |
| 0.3600         | *****  | 0.3700           | 0.6334 |
| 0.4100         | *****  | 0.4200           | 0.7099 |
| 0.5100         | *****  | 0.5300           | 0.8528 |
| 0.7200         | *****  | 0.7300           | 0.9990 |
| 0.9100         | *****  | 0.9400           | 1.0042 |
| 1.1100         | *****  | 1.1500           | 1.0004 |
| 1.3000         | *****  | 1.3500           | 0.9987 |
| 1.5300         | *****  | 1.5500           | 1.0029 |
| 1.7400         | *****  | 1.7500           | 1.0019 |
| 1.9400         | *****  | 1.9500           | 1.0020 |
| 2.1400         | *****  | 2.1600           | 0.9992 |
| 2.3500         | *****  | 2.3700           | 0.9958 |
| 2.5500         | *****  | 2.5800           | 0.9949 |

\*\*\*\*\* = no data

Flight 33 Test point 1

Sweep, deg = 23.4 Mach = 0.60 hp, ft = 10000. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 369.2 Rrho = 3548000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.4251                                 | 0.1020                                  | 0.496                               | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5472 |
| 0.0500         | *****  | 0.0700           | 0.6287 |
| 0.1100         | *****  | 0.1200           | 0.7215 |
| 0.1700         | *****  | 0.1800           | 0.7949 |
| 0.2200         | *****  | 0.2100           | 0.8433 |
| 0.2700         | *****  | 0.2700           | 0.8937 |
| 0.3200         | *****  | 0.3100           | 0.9349 |
| 0.3600         | *****  | 0.3700           | 0.9708 |
| 0.4100         | *****  | 0.4200           | 0.9911 |
| 0.5100         | *****  | 0.5300           | 1.0009 |
| 0.7200         | *****  | 0.7300           | 1.0004 |
| 0.9100         | *****  | 0.9400           | 1.0024 |
| 1.1100         | *****  | 1.1500           | 0.9994 |
| 1.3000         | *****  | 1.3500           | 0.9971 |
| 1.5300         | *****  | 1.5500           | 1.0019 |
| 1.7400         | *****  | 1.7500           | 1.0020 |
| 1.9400         | *****  | 1.9500           | 1.0022 |
| 2.1400         | *****  | 2.1600           | 1.0001 |
| 2.3500         | *****  | 2.3700           | 1.0012 |
| 2.5500         | *****  | 2.5800           | 1.0012 |

\*\*\*\*\* - no data

Flight 33 Test point 2

Sweep, deg = 23.4 Mach = 0.60 hp, ft = 10000. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -5.2 QBAR, lb/ft<sup>2</sup> = 369.6 Rrho = 3547000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.3969                                 | 0.1298                                  | 0.0440                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.0475 |
| 0.0500         | *****  | 0.0700           | 0.4436 |
| 0.1100         | *****  | 0.1200           | 0.6492 |
| 0.1700         | *****  | 0.1800           | 0.7628 |
| 0.2200         | *****  | 0.2100           | 0.8273 |
| 0.2700         | *****  | 0.2700           | 0.8957 |
| 0.3200         | *****  | 0.3100           | 0.9489 |
| 0.3600         | *****  | 0.3700           | 0.9852 |
| 0.4100         | *****  | 0.4200           | 0.9989 |
| 0.5100         | *****  | 0.5300           | 0.9997 |
| 0.7200         | *****  | 0.7300           | 1.0016 |
| 0.9100         | *****  | 0.9400           | 1.0028 |
| 1.1100         | *****  | 1.1500           | 0.9999 |
| 1.3000         | *****  | 1.3500           | 0.9983 |
| 1.5300         | *****  | 1.5500           | 1.0018 |
| 1.7400         | *****  | 1.7500           | 1.0011 |
| 1.9400         | *****  | 1.9500           | 1.0015 |
| 2.1400         | *****  | 2.1600           | 1.0008 |
| 2.3500         | *****  | 2.3700           | 1.0041 |
| 2.5500         | *****  | 2.5800           | 1.0045 |

\*\*\*\*\* - no data



Flight 33 Test point 3

Sweep, deg = 23.4 Mach = 0.61 hp, ft = 9800. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 377.1 Rrho = 3593000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.4361                                 | 0.1011                                  | 0.0494                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5623 |
| 0.0500         | *****  | 0.0700           | 0.6378 |
| 0.1100         | *****  | 0.1200           | 0.7226 |
| 0.1700         | *****  | 0.1800           | 0.7915 |
| 0.2200         | *****  | 0.2100           | 0.8425 |
| 0.2700         | *****  | 0.2700           | 0.8970 |
| 0.3200         | *****  | 0.3100           | 0.9389 |
| 0.3600         | *****  | 0.3700           | 0.9701 |
| 0.4100         | *****  | 0.4200           | 0.9922 |
| 0.5100         | *****  | 0.5300           | 1.0017 |
| 0.7200         | *****  | 0.7300           | 1.0013 |
| 0.9100         | *****  | 0.9400           | 1.0025 |
| 1.1100         | *****  | 1.1500           | 0.9995 |
| 1.3000         | *****  | 1.3500           | 0.9967 |
| 1.5300         | *****  | 1.5500           | 1.0003 |
| 1.7400         | *****  | 1.7500           | 1.0015 |
| 1.9400         | *****  | 1.9500           | 1.0025 |
| 2.1400         | *****  | 2.1600           | 1.0001 |
| 2.3500         | *****  | 2.3700           | 1.0004 |
| 2.5500         | *****  | 2.5800           | 1.0014 |

\*\*\*\*\* - no data

Flight 33 Test point 4

Sweep, deg = 23.4  $\lambda$  = 0.60 hp, ft = 9800. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -5.2  $Q_{BAR}$ , lb/ft<sup>2</sup> = 370.8  $R_{\rho u}$  = 3556000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.3771                                 | 0.1204                                  | 0.0465                              | 0.3 x/c                     |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.2079             |
| 0.0500         | *****              | 0.0700           | 0.4781             |
| 0.1100         | *****              | 0.1200           | 0.6621             |
| 0.1700         | *****              | 0.1800           | 0.7715             |
| 0.2200         | *****              | 0.2100           | 0.8339             |
| 0.2700         | *****              | 0.2700           | 0.9023             |
| 0.3200         | *****              | 0.3100           | 0.9534             |
| 0.3600         | *****              | 0.3700           | 0.9883             |
| 0.4100         | *****              | 0.4300           | 0.9976             |
| 0.5100         | *****              | 0.5300           | 0.9990             |
| 0.7200         | *****              | 0.7300           | 1.0013             |
| 0.9100         | *****              | 0.9400           | 1.0031             |
| 1.1100         | *****              | 1.1500           | 0.9995             |
| 1.3000         | *****              | 1.3500           | 0.9977             |
| 1.5300         | *****              | 1.5500           | 1.0019             |
| 1.7400         | *****              | 1.7500           | 1.0018             |
| 1.9400         | *****              | 1.9500           | 1.0024             |
| 2.1400         | *****              | 2.1600           | 1.0003             |
| 2.3500         | *****              | 2.3700           | 1.0028             |
| 2.5500         | *****              | 2.5800           | 1.0043             |

\*\*\*\*\* - no data

Flight 33 Test point 5

Sweep, deg = 20.0 Mach = 0.60 hp, ft = 9900. Angle of attack, deg = 1.2  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 370.6 Rrho = 3554000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.4086                                 | 0.1205                                  | 0.0500                              | 0.3 x/c                     |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.2873             |
| 0.0500         | *****              | 0.0700           | 0.5009             |
| 0.1100         | *****              | 0.1200           | 0.6657             |
| 0.1700         | *****              | 0.1800           | 0.7667             |
| 0.2200         | *****              | 0.2100           | 0.8252             |
| 0.2700         | *****              | 0.2700           | 0.8890             |
| 0.3200         | *****              | 0.3100           | 0.9407             |
| 0.3600         | *****              | 0.3700           | 0.9783             |
| 0.4100         | *****              | 0.4200           | 0.9968             |
| 0.5100         | *****              | 0.5300           | 0.9996             |
| 0.7200         | *****              | 0.7300           | 1.0021             |
| 0.9100         | *****              | 0.9400           | 1.0044             |
| 1.1100         | *****              | 1.1500           | 1.0004             |
| 1.3000         | *****              | 1.3500           | 0.9985             |
| 1.5300         | *****              | 1.5500           | 1.0034             |
| 1.7400         | *****              | 1.7500           | 1.0034             |
| 1.9400         | *****              | 1.9500           | 1.0049             |
| 2.1400         | *****              | 2.1600           | 1.0017             |
| 2.3500         | *****              | 2.3700           | 1.0034             |
| 2.5500         | *****              | 2.5800           | 1.0034             |

\*\*\*\*\* - no data

Flight 33 Test point 6

Sweep, deg = 20.0 Mach = 0.60 hp, ft = 9900. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -5.2 QBAR, lb/ft<sup>2</sup> = 369.4 Rnpu = 3548000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | *****                      | *****                       | *****                   | none             |
| Outboard station rake | 0.4159                     | 0.1410                      | 0.0558                  | 0.3 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5527 |
| 0.0500         | *****  | 0.0700           | 0.2452 |
| 0.1100         | *****  | 0.1200           | 0.5042 |
| 0.1700         | *****  | 0.1800           | 0.6786 |
| 0.2200         | *****  | 0.2100           | 0.7652 |
| 0.2700         | *****  | 0.2700           | 0.8549 |
| 0.3200         | *****  | 0.3100           | 0.9223 |
| 0.3600         | *****  | 0.3700           | 0.9683 |
| 0.4100         | *****  | 0.4200           | 0.9917 |
| 0.5100         | *****  | 0.5300           | 0.9978 |
| 0.7200         | *****  | 0.7300           | 0.9996 |
| 0.9100         | *****  | 0.9400           | 1.0019 |
| 1.1100         | *****  | 1.1500           | 0.9977 |
| 1.3000         | *****  | 1.3500           | 0.9972 |
| 1.5300         | *****  | 1.5500           | 1.0034 |
| 1.7400         | *****  | 1.7500           | 1.0016 |
| 1.9400         | *****  | 1.9500           | 1.0022 |
| 2.1400         | *****  | 2.1600           | 1.0001 |
| 2.3500         | *****  | 2.3700           | 1.0021 |
| 2.5500         | *****  | 2.5800           | 1.0045 |

\*\*\*\*\* - no data

Flight 33 Test point 7

Sweep, deg = 20.0 Mach = 0.60 hp, ft = 9700. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 376.4 Rrho = 3595000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.3742                                 | 0.1135                                  | 0.0472                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3196 |
| 0.0500         | *****  | 0.0700           | 0.5177 |
| 0.1100         | *****  | 0.1200           | 0.6724 |
| 0.1700         | *****  | 0.1800           | 0.7757 |
| 0.2200         | *****  | 0.2100           | 0.8378 |
| 0.2700         | *****  | 0.2700           | 0.9092 |
| 0.3200         | *****  | 0.3100           | 0.9594 |
| 0.3600         | *****  | 0.3700           | 0.9899 |
| 0.4100         | *****  | 0.4200           | 0.9992 |
| 0.5100         | *****  | 0.5300           | 0.9995 |
| 0.7200         | *****  | 0.7300           | 1.0004 |
| 0.9100         | *****  | 0.9400           | 1.0029 |
| 1.1100         | *****  | 1.1500           | 1.0010 |
| 1.3000         | *****  | 1.3500           | 0.9972 |
| 1.5300         | *****  | 1.5500           | 1.0005 |
| 1.7400         | *****  | 1.7500           | 1.0007 |
| 1.9400         | *****  | 1.9500           | 1.0039 |
| 2.1400         | *****  | 2.1600           | 1.0004 |
| 2.3500         | *****  | 2.3700           | 1.0015 |
| 2.5500         | *****  | 2.5800           | 1.0030 |

\*\*\*\*\* - no data

Flight 33 Test point 8

Sweep, deg = 20.0 Mach = 0.60 hp, ft = 9800. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 372.2 Rrho = 3565000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.4151                                 | 0.1422                                  | 0.0531                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5137 |
| 0.0500         | *****  | 0.0700           | 0.1625 |
| 0.1100         | *****  | 0.1200           | 0.5250 |
| 0.1700         | *****  | 0.1800           | 0.6931 |
| 0.2200         | *****  | 0.2100           | 0.7748 |
| 0.2700         | *****  | 0.2700           | 0.8632 |
| 0.3200         | *****  | 0.3100           | 0.9253 |
| 0.3600         | *****  | 0.3700           | 0.9699 |
| 0.4100         | *****  | 0.4200           | 0.9922 |
| 0.5100         | *****  | 0.5300           | 0.9966 |
| 0.7200         | *****  | 0.7300           | 0.9997 |
| 0.9100         | *****  | 0.9400           | 1.0010 |
| 1.1100         | *****  | 1.1500           | 0.9984 |
| 1.3000         | *****  | 1.3500           | 0.9973 |
| 1.5300         | *****  | 1.5500           | 1.0021 |
| 1.7400         | *****  | 1.7500           | 1.0028 |
| 1.9400         | *****  | 1.9500           | 1.0029 |
| 2.1400         | *****  | 2.1600           | 1.0014 |
| 2.3500         | *****  | 2.3700           | 1.0027 |
| 2.5500         | *****  | 2.5800           | 1.0028 |

\*\*\*\*\* - no data

Flight 33 Test point 9

Sweep, deg = 20.0 Mach = 0.60 hp, ft = 9800. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 372.4 Rho = 3561000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.4208                                 | 0.1224                                  | 0.0512                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.2860 |
| 0.0500         | *****  | 0.0700           | 0.5035 |
| 0.1100         | *****  | 0.1200           | 0.6646 |
| 0.1700         | *****  | 0.1800           | 0.7630 |
| 0.2200         | *****  | 0.2100           | 0.8175 |
| 0.2700         | *****  | 0.2700           | 0.8837 |
| 0.3200         | *****  | 0.3100           | 0.9350 |
| 0.3600         | *****  | 0.3700           | 0.9721 |
| 0.4100         | *****  | 0.4200           | 0.9921 |
| 0.5100         | *****  | 0.5300           | 0.9995 |
| 0.7200         | *****  | 0.7300           | 1.0027 |
| 0.9100         | *****  | 0.9400           | 1.0038 |
| 1.1100         | *****  | 1.1500           | 0.9993 |
| 1.3000         | *****  | 1.3500           | 0.9964 |
| 1.5300         | *****  | 1.5500           | 1.0002 |
| 1.7400         | *****  | 1.7500           | 1.0008 |
| 1.9400         | *****  | 1.9500           | 1.0033 |
| 2.1400         | *****  | 2.1600           | 1.0006 |
| 2.3500         | *****  | 2.3700           | 1.0001 |
| 2.5500         | *****  | 2.5800           | 1.0012 |

\*\*\*\*\* - no data

Flight 33 Test point 10

Sweep, deg = 20.0 Mach = 0.60 hp, ft = 10100. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = -4.7 QBAR, lb/ft<sup>2</sup> = 367.4 Rrho = 3528000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.4333                                 | 0.1428                                  | 0.0584                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5672 |
| 0.0500         | *****  | 0.0700           | 0.2973 |
| 0.1100         | *****  | 0.1200           | 0.4823 |
| 0.1700         | *****  | 0.1800           | 0.6639 |
| 0.2200         | *****  | 0.2100           | 0.7532 |
| 0.2700         | *****  | 0.2700           | 0.8464 |
| 0.3200         | *****  | 0.3100           | 0.9094 |
| 0.3600         | *****  | 0.3700           | 0.9615 |
| 0.4100         | *****  | 0.4200           | 0.9882 |
| 0.5100         | *****  | 0.5300           | 0.9976 |
| 0.7200         | *****  | 0.7300           | 1.0012 |
| 0.9100         | *****  | 0.9400           | 1.0027 |
| 1.1100         | *****  | 1.1500           | 0.9984 |
| 1.3000         | *****  | 1.3500           | 0.9976 |
| 1.5300         | *****  | 1.5500           | 1.0013 |
| 1.7400         | *****  | 1.7500           | 1.0031 |
| 1.9400         | *****  | 1.9500           | 1.0029 |
| 2.1400         | *****  | 2.1600           | 1.0010 |
| 2.3500         | *****  | 2.3700           | 1.0029 |
| 2.5500         | *****  | 2.5800           | 1.0032 |

\*\*\*\*\* - no data



Flight 33 Test point 11

Sweep, deg = 25.0 Mach = 0.60 hp, ft = 9900, Angle of attack, deg = 0.9  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 369.6 Rrho = 3552000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.4529                        | 0.1055                         | 0.0529                     | 0.3 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5815 |
| 0.0500         | *****  | 0.0700           | 0.6405 |
| 0.1100         | *****  | 0.1200           | 0.7152 |
| 0.1700         | *****  | 0.1800           | 0.7752 |
| 0.2200         | *****  | 0.2100           | 0.8207 |
| 0.2700         | *****  | 0.2700           | 0.8756 |
| 0.3200         | *****  | 0.3100           | 0.9248 |
| 0.3600         | *****  | 0.3700           | 0.9575 |
| 0.4100         | *****  | 0.4200           | 0.9852 |
| 0.5100         | *****  | 0.5300           | 1.0038 |
| 0.7200         | *****  | 0.7300           | 0.9992 |
| 0.9100         | *****  | 0.9400           | 1.0037 |
| 1.1100         | *****  | 1.1500           | 0.9986 |
| 1.3000         | *****  | 1.3500           | 0.9975 |
| 1.5300         | *****  | 1.5500           | 1.0031 |
| 1.7400         | *****  | 1.7500           | 1.0004 |
| 1.9400         | *****  | 1.9500           | 1.0030 |
| 2.1400         | *****  | 2.1600           | 1.0011 |
| 2.3500         | *****  | 2.3700           | 1.0030 |
| 2.5500         | *****  | 2.5800           | 1.0015 |

\*\*\*\*\* - no data

Flight 33 Test point 12

Sweep, deg = 24.9 Mach = 0.61 hp, ft = 9500. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 381.4 Rrho = 3629000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.4659                                 | 0.1084                                  | 0.0552                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5926 |
| 0.0500         | *****  | 0.0700           | 0.6523 |
| 0.1100         | *****  | 0.1200           | 0.7181 |
| 0.1700         | *****  | 0.1800           | 0.7731 |
| 0.2200         | *****  | 0.2100           | 0.8137 |
| 0.2700         | *****  | 0.2700           | 0.8650 |
| 0.3200         | *****  | 0.3100           | 0.9057 |
| 0.3600         | *****  | 0.3700           | 0.9446 |
| 0.4100         | *****  | 0.4200           | 0.9754 |
| 0.5100         | *****  | 0.5300           | 1.0024 |
| 0.7200         | *****  | 0.7300           | 1.0045 |
| 0.9100         | *****  | 0.9400           | 1.0035 |
| 1.1100         | *****  | 1.1500           | 1.0006 |
| 1.3000         | *****  | 1.3500           | 0.9991 |
| 1.5300         | *****  | 1.5500           | 1.0022 |
| 1.7400         | *****  | 1.7500           | 1.0032 |
| 1.9400         | *****  | 1.9500           | 1.0040 |
| 2.1400         | *****  | 2.1600           | 1.0007 |
| 2.3500         | *****  | 2.3700           | 1.0020 |
| 2.5500         | *****  | 2.5800           | 1.0023 |

\*\*\*\*\* - no data

Flight 33 Test point 13

Sweep, deg = 25.0 Mach = 0.61 hp, ft = 10000. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = -0.6 QBAR, lb/ft<sup>2</sup> = 371.5 Rrho = 3556000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.4564                                 | 0.1095                                  | 0.0546                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5630 |
| 0.0500         | *****  | 0.0700           | 0.6311 |
| 0.1100         | *****  | 0.1200           | 0.7046 |
| 0.1700         | *****  | 0.1800           | 0.7721 |
| 0.2200         | *****  | 0.2100           | 0.8142 |
| 0.2700         | *****  | 0.2700           | 0.8683 |
| 0.3200         | *****  | 0.3100           | 0.9133 |
| 0.3600         | *****  | 0.3700           | 0.9523 |
| 0.4100         | *****  | 0.4200           | 0.9805 |
| 0.5100         | *****  | 0.5300           | 1.0020 |
| 0.7200         | *****  | 0.7300           | 1.0031 |
| 0.9100         | *****  | 0.9400           | 1.0038 |
| 1.1100         | *****  | 1.1500           | 0.9996 |
| 1.3000         | *****  | 1.3500           | 0.9984 |
| 1.5300         | *****  | 1.5500           | 1.0028 |
| 1.7400         | *****  | 1.7500           | 1.0018 |
| 1.9400         | *****  | 1.9500           | 1.0030 |
| 2.1400         | *****  | 2.1600           | 1.0004 |
| 2.3500         | *****  | 2.3700           | 1.0020 |
| 2.5500         | *****  | 2.5800           | 1.0028 |

\*\*\*\*\* - no data

Flight 33 Test point 14

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = -0.1  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 500.7 Rrho = 4176000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5027                                 | 0.1372                                  | 0.0647                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4948 |
| 0.0500         | *****  | 0.0700           | 0.5789 |
| 0.1100         | *****  | 0.1200           | 0.6624 |
| 0.1700         | *****  | 0.1800           | 0.7238 |
| 0.2200         | *****  | 0.2100           | 0.7653 |
| 0.2700         | *****  | 0.2700           | 0.8208 |
| 0.3200         | *****  | 0.3100           | 0.8649 |
| 0.3600         | *****  | 0.3700           | 0.9098 |
| 0.4100         | *****  | 0.4200           | 0.9461 |
| 0.5100         | *****  | 0.5300           | 0.9977 |
| 0.7200         | *****  | 0.7300           | 1.0063 |
| 0.9100         | *****  | 0.9400           | 1.0063 |
| 1.1100         | *****  | 1.1500           | 1.0042 |
| 1.3000         | *****  | 1.3500           | 1.0037 |
| 1.5300         | *****  | 1.5500           | 1.0066 |
| 1.7400         | *****  | 1.7500           | 1.0050 |
| 1.9400         | *****  | 1.9500           | 1.0059 |
| 2.1400         | *****  | 2.1600           | 1.0043 |
| 2.3500         | *****  | 2.3700           | 1.0076 |
| 2.5500         | *****  | 2.5800           | 1.0065 |

\*\*\*\*\* - no data

Flight 33 Test point 15

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 9900. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -5.2 QBAR, lb/ft<sup>2</sup> = 500.2 Rrho = 4174000.

|                       |                               |                                |                            |                     |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.4407                        | 0.1495                         | 0.0589                     | 0.3 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.7266 |
| 0.0500         | *****  | 0.0700           | 0.5262 |
| 0.1100         | *****  | 0.1200           | 0.2961 |
| 0.1700         | *****  | 0.1800           | 0.5879 |
| 0.2200         | *****  | 0.2100           | 0.7113 |
| 0.2700         | *****  | 0.2700           | 0.8198 |
| 0.3200         | *****  | 0.3100           | 0.8944 |
| 0.3600         | *****  | 0.3700           | 0.9547 |
| 0.4100         | *****  | 0.4200           | 0.9873 |
| 0.5100         | *****  | 0.5300           | 0.9974 |
| 0.7200         | *****  | 0.7300           | 1.0005 |
| 0.9100         | *****  | 0.9400           | 1.0012 |
| 1.1100         | *****  | 1.1500           | 1.0001 |
| 1.3000         | *****  | 1.3500           | 0.9991 |
| 1.5300         | *****  | 1.5500           | 1.0023 |
| 1.7400         | *****  | 1.7500           | 1.0025 |
| 1.9400         | *****  | 1.9500           | 1.0025 |
| 2.1400         | *****  | 2.1600           | 1.0007 |
| 2.3500         | *****  | 2.3700           | 1.0031 |
| 2.5500         | *****  | 2.5800           | 1.0032 |

\*\*\*\*\* - no data

Flight 33 Test point 16

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 10100. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 501.6 Rnpu = 4176000.

|                       |                               |                                |                            |                     |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.4587                        | 0.1522                         | 0.0596                     | 0.3 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3048 |
| 0.0500         | *****  | 0.0700           | 0.3394 |
| 0.1100         | *****  | 0.1200           | 0.5767 |
| 0.1700         | *****  | 0.1800           | 0.6939 |
| 0.2200         | *****  | 0.2100           | 0.7582 |
| 0.2700         | *****  | 0.2700           | 0.8284 |
| 0.3200         | *****  | 0.3100           | 0.8862 |
| 0.3600         | *****  | 0.3700           | 0.9346 |
| 0.4100         | *****  | 0.4200           | 0.9727 |
| 0.5100         | *****  | 0.5300           | 1.0013 |
| 0.7200         | *****  | 0.7300           | 1.0042 |
| 0.9100         | *****  | 0.9400           | 1.0042 |
| 1.1100         | *****  | 1.1500           | 1.0010 |
| 1.3000         | *****  | 1.3500           | 0.9992 |
| 1.5300         | *****  | 1.5500           | 1.0015 |
| 1.7400         | *****  | 1.7500           | 1.0029 |
| 1.9400         | *****  | 1.9500           | 1.0036 |
| 2.1400         | *****  | 2.1600           | 1.0024 |
| 2.3500         | *****  | 2.3700           | 1.0039 |
| 2.5500         | *****  | 2.5800           | 1.0032 |

\*\*\*\*\* - no data

Flight 33 Test point 17

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 9800. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 506.7 Rrho = 4212000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | *****                      | *****                       | *****                   | none             |
| Outboard station rake | 0.4399                     | 0.1520                      | 0.0590                  | 0.3 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.7235 |
| 0.0500         | *****  | 0.0700           | 0.5298 |
| 0.1100         | *****  | 0.1200           | 0.2771 |
| 0.1700         | *****  | 0.1800           | 0.5780 |
| 0.2200         | *****  | 0.2100           | 0.7053 |
| 0.2700         | *****  | 0.2700           | 0.8133 |
| 0.3200         | *****  | 0.3100           | 0.8911 |
| 0.3600         | *****  | 0.3700           | 0.9528 |
| 0.4100         | *****  | 0.4200           | 0.9872 |
| 0.5100         | *****  | 0.5300           | 0.9974 |
| 0.7200         | *****  | 0.7300           | 1.0010 |
| 0.9100         | *****  | 0.9400           | 1.0024 |
| 1.1100         | *****  | 1.1500           | 0.9998 |
| 1.3000         | *****  | 1.3500           | 0.9992 |
| 1.5300         | *****  | 1.5500           | 1.0017 |
| 1.7400         | *****  | 1.7500           | 1.0022 |
| 1.9400         | *****  | 1.9500           | 1.0032 |
| 2.1400         | *****  | 2.1600           | 1.0011 |
| 2.3500         | *****  | 2.3700           | 1.0027 |
| 2.5500         | *****  | 2.5800           | 1.0021 |

\*\*\*\*\* - no data

Flight 33 Test point 18

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 10400. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 496.4 Rnpu = 4137000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | *****                      | *****                       | *****                   | none             |
| Outboard station rake | 0.4325                     | 0.1505                      | 0.0530                  | 0.3 x/c          |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4571 |
| 0.0500         | *****  | 0.0700           | 0.1307 |
| 0.1100         | *****  | 0.1200           | 0.5403 |
| 0.1700         | *****  | 0.1800           | 0.6876 |
| 0.2200         | *****  | 0.2100           | 0.7686 |
| 0.2700         | *****  | 0.2700           | 0.8491 |
| 0.3200         | *****  | 0.3100           | 0.9114 |
| 0.3600         | *****  | 0.3700           | 0.9625 |
| 0.4100         | *****  | 0.4200           | 0.9890 |
| 0.5100         | *****  | 0.5300           | 0.9987 |
| 0.7200         | *****  | 0.7300           | 1.0006 |
| 0.9100         | *****  | 0.9400           | 1.0017 |
| 1.1100         | *****  | 1.1500           | 0.9997 |
| 1.3000         | *****  | 1.3500           | 0.9994 |
| 1.5300         | *****  | 1.5500           | 1.0024 |
| 1.7400         | *****  | 1.7500           | 1.0022 |
| 1.9400         | *****  | 1.9500           | 1.0025 |
| 2.1400         | *****  | 2.1600           | 1.0010 |
| 2.3500         | *****  | 2.3700           | 1.0016 |
| 2.5500         | *****  | 2.5800           | 1.0011 |

\*\*\*\*\* - no data



Flight 33 Test point 19

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 9900. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 502.4 Rnpu = 4185000.

|                       |                               |                                |                            |                     |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.4502                        | 0.1666                         | 0.0562                     | 0.3 x/c             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.7643             |
| 0.0500         | *****              | 0.0700           | 0.5925             |
| 0.1100         | *****              | 0.1200           | 0.0931             |
| 0.1700         | *****              | 0.1800           | 0.5254             |
| 0.2200         | *****              | 0.2100           | 0.6667             |
| 0.2700         | *****              | 0.2700           | 0.7846             |
| 0.3200         | *****              | 0.3100           | 0.8666             |
| 0.3600         | *****              | 0.3700           | 0.9333             |
| 0.4100         | *****              | 0.4200           | 0.9759             |
| 0.5100         | *****              | 0.5300           | 0.9985             |
| 0.7200         | *****              | 0.7300           | 1.0017             |
| 0.9100         | *****              | 0.9400           | 1.0027             |
| 1.1100         | *****              | 1.1500           | 1.0004             |
| 1.3000         | *****              | 1.3500           | 1.0005             |
| 1.5300         | *****              | 1.5500           | 1.0036             |
| 1.7400         | *****              | 1.7500           | 1.0034             |
| 1.9400         | *****              | 1.9500           | 1.0035             |
| 2.1400         | *****              | 2.1600           | 1.0030             |
| 2.3500         | *****              | 2.3700           | 1.0036             |
| 2.5500         | *****              | 2.5800           | 1.0031             |

\*\*\*\*\* - no data

Flight 33 Test point 20

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = -0.1  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 502.0 Rrho = 4182000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5118                                 | 0.1377                                  | 0.0653                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4961 |
| 0.0500         | *****  | 0.0700           | 0.5782 |
| 0.1100         | *****  | 0.1200           | 0.6647 |
| 0.1700         | *****  | 0.1800           | 0.7261 |
| 0.2200         | *****  | 0.2100           | 0.7679 |
| 0.2700         | *****  | 0.2700           | 0.8194 |
| 0.3200         | *****  | 0.3100           | 0.8637 |
| 0.3600         | *****  | 0.3700           | 0.9065 |
| 0.4100         | *****  | 0.4200           | 0.9420 |
| 0.5100         | *****  | 0.5300           | 0.9916 |
| 0.7200         | *****  | 0.7300           | 1.0004 |
| 0.9100         | *****  | 0.9400           | 1.0015 |
| 1.1100         | *****  | 1.1500           | 0.9992 |
| 1.3000         | *****  | 1.3500           | 0.9989 |
| 1.5300         | *****  | 1.5500           | 1.0018 |
| 1.7400         | *****  | 1.7500           | 1.0020 |
| 1.9400         | *****  | 1.9500           | 1.0027 |
| 2.1400         | *****  | 2.1600           | 0.9997 |
| 2.3500         | *****  | 2.3700           | 1.0010 |
| 2.5500         | *****  | 2.5800           | 1.0013 |

\*\*\*\*\* - no data

Flight 33 Test point 21

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 10100. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 494.3 Rrho = 4140000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5105                                 | 0.1395                                  | 0.0659                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4839 |
| 0.0500         | *****  | 0.0700           | 0.5733 |
| 0.1100         | *****  | 0.1200           | 0.6587 |
| 0.1700         | *****  | 0.1800           | 0.7215 |
| 0.2200         | *****  | 0.2100           | 0.7644 |
| 0.2700         | *****  | 0.2700           | 0.8165 |
| 0.3200         | *****  | 0.3100           | 0.8612 |
| 0.3600         | *****  | 0.3700           | 0.9043 |
| 0.4100         | *****  | 0.4200           | 0.9408 |
| 0.5100         | *****  | 0.5300           | 0.9901 |
| 0.7200         | *****  | 0.7300           | 1.0014 |
| 0.9100         | *****  | 0.9400           | 1.0018 |
| 1.1100         | *****  | 1.1500           | 1.0005 |
| 1.3000         | *****  | 1.3500           | 0.9982 |
| 1.5300         | *****  | 1.5500           | 1.0018 |
| 1.7400         | *****  | 1.7500           | 1.0010 |
| 1.9400         | *****  | 1.9500           | 1.0021 |
| 2.1400         | *****  | 2.1600           | 1.0000 |
| 2.3500         | *****  | 2.3700           | 1.0021 |
| 2.5500         | *****  | 2.5800           | 1.0011 |

\*\*\*\*\* - no data

Flight 33 Test point 22

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 10200, Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 492.6 Rrho = 4127000.

|                       |                               |                                |                            |                     |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5864                        | 0.1611                         | 0.0750                     | 0.3 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4154 |
| 0.0500         | *****  | 0.0700           | 0.5235 |
| 0.1100         | *****  | 0.1200           | 0.6227 |
| 0.1700         | *****  | 0.1800           | 0.6936 |
| 0.2200         | *****  | 0.2100           | 0.7354 |
| 0.2700         | *****  | 0.2700           | 0.7870 |
| 0.3200         | *****  | 0.3100           | 0.8312 |
| 0.3600         | *****  | 0.3700           | 0.8716 |
| 0.4100         | *****  | 0.4200           | 0.9085 |
| 0.5100         | *****  | 0.5300           | 0.9714 |
| 0.7200         | *****  | 0.7300           | 1.0032 |
| 0.9100         | *****  | 0.9400           | 1.0040 |
| 1.1100         | *****  | 1.1500           | 1.0022 |
| 1.3000         | *****  | 1.3500           | 1.0009 |
| 1.5300         | *****  | 1.5500           | 1.0031 |
| 1.7400         | *****  | 1.7500           | 1.0024 |
| 1.9400         | *****  | 1.9500           | 1.0035 |
| 2.1400         | *****  | 2.1600           | 1.0024 |
| 2.3500         | *****  | 2.3700           | 1.0037 |
| 2.5500         | *****  | 2.5800           | 1.0033 |

\*\*\*\*\* - no data

Flight 33 Test point 23

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 332.7 Rrho = 2947000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5934                                 | 0.1492                                  | 0.0742                              | 0.3 X/c                     |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.5580             |
| 0.0500         | *****              | 0.0700           | 0.5978             |
| 0.1100         | *****              | 0.1200           | 0.6636             |
| 0.1700         | *****              | 0.1800           | 0.7122             |
| 0.2200         | *****              | 0.2100           | 0.7469             |
| 0.2700         | *****              | 0.2700           | 0.7959             |
| 0.3200         | *****              | 0.3100           | 0.8360             |
| 0.3600         | *****              | 0.3700           | 0.8701             |
| 0.4100         | *****              | 0.4200           | 0.9071             |
| 0.5100         | *****              | 0.5300           | 0.9701             |
| 0.7200         | *****              | 0.7300           | 1.0032             |
| 0.9100         | *****              | 0.9400           | 1.0048             |
| 1.1100         | *****              | 1.1500           | 1.0010             |
| 1.3000         | *****              | 1.3500           | 0.9991             |
| 1.5300         | *****              | 1.5500           | 1.0032             |
| 1.7400         | *****              | 1.7500           | 1.0027             |
| 1.9400         | *****              | 1.9500           | 1.0052             |
| 2.1400         | *****              | 2.1600           | 1.0029             |
| 2.3500         | *****              | 2.3700           | 1.0033             |
| 2.5500         | *****              | 2.5800           | 1.0047             |

\*\*\*\*\* - no data

Flight 33 Test point 24

Sweep, deg = 29.8 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 337.9 R<sub>pu</sub> = 2973000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5767                        | 0.1418                         | 0.0708                     | 0.3 x/c             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.5738             |
| 0.0500         | *****              | 0.0700           | 0.6092             |
| 0.1100         | *****              | 0.1200           | 0.6734             |
| 0.1700         | *****              | 0.1800           | 0.7204             |
| 0.2200         | *****              | 0.2100           | 0.7560             |
| 0.2700         | *****              | 0.2700           | 0.8064             |
| 0.3200         | *****              | 0.3100           | 0.8470             |
| 0.3600         | *****              | 0.3700           | 0.8828             |
| 0.4100         | *****              | 0.4200           | 0.9203             |
| 0.5100         | *****              | 0.5300           | 0.9781             |
| 0.7200         | *****              | 0.7300           | 1.0030             |
| 0.9100         | *****              | 0.9400           | 1.0048             |
| 1.1100         | *****              | 1.1500           | 1.0001             |
| 1.3000         | *****              | 1.3500           | 0.9979             |
| 1.5300         | *****              | 1.5500           | 1.0023             |
| 1.7400         | *****              | 1.7500           | 1.0028             |
| 1.9400         | *****              | 1.9500           | 1.0033             |
| 2.1400         | *****              | 2.1600           | 1.0010             |
| 2.3500         | *****              | 2.3700           | 1.0035             |
| 2.5500         | *****              | 2.5800           | 1.0032             |

\*\*\*\*\* - no data

Flight 33 Test point 25

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 335.8 Rrho = 2963000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.4024                                 | 0.1304                                  | 0.0563                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4626 |
| 0.0500         | *****  | 0.0700           | 0.5700 |
| 0.1100         | *****  | 0.1200           | 0.6843 |
| 0.1700         | *****  | 0.1800           | 0.7685 |
| 0.2200         | *****  | 0.2100           | 0.8278 |
| 0.2700         | *****  | 0.2700           | 0.5622 |
| 0.3200         | *****  | 0.3100           | 0.9443 |
| 0.3600         | *****  | 0.3700           | 0.9817 |
| 0.4100         | *****  | 0.4200           | 0.9986 |
| 0.5100         | *****  | 0.5300           | 1.0024 |
| 0.7200         | *****  | 0.7300           | 1.0016 |
| 0.9100         | *****  | 0.9400           | 1.0029 |
| 1.1100         | *****  | 1.1500           | 0.9990 |
| 1.3000         | *****  | 1.3500           | 0.9983 |
| 1.5300         | *****  | 1.5500           | 1.0029 |
| 1.7400         | *****  | 1.7500           | 1.0018 |
| 1.9400         | *****  | 1.9500           | 1.0037 |
| 2.1400         | *****  | 2.1600           | 1.0006 |
| 2.3500         | *****  | 2.3700           | 1.0030 |
| 2.5500         | *****  | 2.5800           | 1.0036 |

\*\*\*\*\* - no data

Flight 33 Test point 26

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 20300, Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 331.0 Rrho = 2932000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.4092                                 | 0.1131                                  | 0.0501                              | 0.3 x/c                     |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.4700             |
| 0.0500         | *****              | 0.0700           | 0.5712             |
| 0.1100         | *****              | 0.1200           | 0.6867             |
| 0.1700         | *****              | 0.1800           | 0.7688             |
| 0.2200         | *****              | 0.2100           | 0.8258             |
| 0.2700         | *****              | 0.2700           | 0.8904             |
| 0.3200         | *****              | 0.3100           | 0.9411             |
| 0.3600         | *****              | 0.3700           | 0.9782             |
| 0.4100         | *****              | 0.4200           | 0.9956             |
| 0.5100         | *****              | 0.5300           | 1.0027             |
| 0.7200         | *****              | 0.7300           | 1.0028             |
| 0.9100         | *****              | 0.9400           | 1.0050             |
| 1.1100         | *****              | 1.1500           | 0.9994             |
| 1.3000         | *****              | 1.3500           | 0.9979             |
| 1.5300         | *****              | 1.5500           | 1.0036             |
| 1.7400         | *****              | 1.7500           | 1.0013             |
| 1.9400         | *****              | 1.9500           | 1.0045             |
| 2.1400         | *****              | 2.1600           | 1.0026             |
| 2.3500         | *****              | 2.3700           | 1.0025             |
| 2.5500         | *****              | 2.5800           | 1.0040             |

\*\*\*\*\* - no data



Flight 33 Test point 27

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 19800. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 338.8 Rrho = 2983000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>r/c<br>0.3 x/c |
|-----------------------|--|---|-------------------------------------|---------------------------------------|
| Middle station rake   |  |   |                                     |                                       |
| Outboard station rake | 0.4046                                 | 0.1218                                  | 0.0507                              |                                       |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3626 |
| 0.0500         | *****  | 0.0700           | 0.5228 |
| 0.1100         | *****  | 0.1200           | 0.6607 |
| 0.1700         | *****  | 0.1800           | 0.7520 |
| 0.2200         | *****  | 0.2100           | 0.8157 |
| 0.2700         | *****  | 0.2700           | 0.8859 |
| 0.3200         | *****  | 0.3100           | 0.9392 |
| 0.3600         | *****  | 0.3700           | 0.9792 |
| 0.4100         | *****  | 0.4200           | 0.9975 |
| 0.5100         | *****  | 0.5300           | 1.0034 |
| 0.7200         | *****  | 0.7300           | 1.0024 |
| 0.9100         | *****  | 0.9400           | 1.0024 |
| 1.1100         | *****  | 1.1500           | 0.9998 |
| 1.3000         | *****  | 1.3500           | 0.9984 |
| 1.5300         | *****  | 1.5500           | 1.0029 |
| 1.7400         | *****  | 1.7500           | 1.0015 |
| 1.9400         | *****  | 1.9500           | 1.0037 |
| 2.1400         | *****  | 2.1600           | 1.0017 |
| 2.3500         | *****  | 2.3700           | 1.0026 |
| 2.5500         | *****  | 2.5800           | 1.0044 |

\*\*\*\*\* - no data

Flight 33 Test point 28

Sweep, deg = 20.0 Mach = 0.69 hp, ft = 19700. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 329.5 Rnpu = 2941000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.4124                        | 0.1444                         | 0.0540                     | 0.3 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3749 |
| 0.0500         | *****  | 0.0700           | 0.2710 |
| 0.1100         | *****  | 0.1200           | 0.5696 |
| 0.1700         | *****  | 0.1800           | 0.7008 |
| 0.2200         | *****  | 0.2100           | 0.7750 |
| 0.2700         | *****  | 0.2700           | 0.8561 |
| 0.3200         | *****  | 0.3100           | 0.9180 |
| 0.3600         | *****  | 0.3700           | 0.9680 |
| 0.4100         | *****  | 0.4200           | 0.9926 |
| 0.5100         | *****  | 0.5300           | 1.0001 |
| 0.7200         | *****  | 0.7300           | 1.0003 |
| 0.9100         | *****  | 0.9400           | 1.0031 |
| 1.1100         | *****  | 1.1500           | 0.9988 |
| 1.3000         | *****  | 1.3500           | 0.9972 |
| 1.5300         | *****  | 1.5500           | 1.0013 |
| 1.7400         | *****  | 1.7500           | 1.0008 |
| 1.9400         | *****  | 1.9500           | 1.0028 |
| 2.1400         | *****  | 2.1600           | 1.0016 |
| 2.3500         | *****  | 2.3700           | 0.9998 |
| 2.5500         | *****  | 2.5800           | 1.0016 |

\*\*\*\*\* - no data

Flight 33 Test point 29

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 331.8 Rnpu = 29.1000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none<br>0.3 x/c |
|-----------------------|--|---|-------------------------------------|--|
| Middle station rake   |  |   |                                     |  |
| Outboard station rake | 0.4513                                 | 0.1630                                  | 0.0595                              |  |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.7461 |
| 0.0500         | *****  | 0.0700           | 0.5714 |
| 0.1100         | *****  | 0.1200           | 0.1767 |
| 0.1700         | *****  | 0.1800           | 0.5405 |
| 0.2200         | *****  | 0.2100           | 0.6707 |
| 0.2700         | *****  | 0.2700           | 0.7851 |
| 0.3200         | *****  | 0.3100           | 0.8673 |
| 0.3600         | *****  | 0.3700           | 0.9333 |
| 0.4100         | *****  | 0.4200           | 0.9753 |
| 0.5100         | *****  | 0.5300           | 0.9991 |
| 0.7200         | *****  | 0.7300           | 1.0017 |
| 0.9100         | *****  | 0.9400           | 1.0038 |
| 1.1100         | *****  | 1.1500           | 0.9994 |
| 1.3000         | *****  | 1.3500           | 0.9989 |
| 1.5300         | *****  | 1.5500           | 1.0044 |
| 1.7400         | *****  | 1.7500           | 1.0036 |
| 1.9400         | *****  | 1.9500           | 1.0045 |
| 2.1400         | *****  | 2.1600           | 1.0017 |
| 2.3500         | *****  | 2.3700           | 1.0031 |
| 2.5500         | *****  | 2.5800           | 1.0044 |

\*\*\*\*\* - no data

Flight 33 Test point 30

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 20200. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 331.3 Rrho = 2934000.

|                       |                               |                                |                            |                     |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.4197                        | 0.1458                         | 0.0538                     | 0.3 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3990 |
| 0.0500         | *****  | 0.0700           | 0.2320 |
| 0.1100         | *****  | 0.1200           | 0.5604 |
| 0.1700         | *****  | 0.1800           | 0.6960 |
| 0.2200         | *****  | 0.2100           | 0.7741 |
| 0.2700         | *****  | 0.2700           | 0.8576 |
| 0.3200         | *****  | 0.3100           | 0.9194 |
| 0.3600         | *****  | 0.3700           | 0.9657 |
| 0.4100         | *****  | 0.4200           | 0.9925 |
| 0.5100         | *****  | 0.5300           | 1.0000 |
| 0.7200         | *****  | 0.7300           | 0.9994 |
| 0.9100         | *****  | 0.9400           | 1.0027 |
| 1.1100         | *****  | 1.1500           | 0.9979 |
| 1.3000         | *****  | 1.3500           | 0.9976 |
| 1.5300         | *****  | 1.5500           | 1.0014 |
| 1.7400         | *****  | 1.7500           | 1.0013 |
| 1.9400         | *****  | 1.9500           | 1.0024 |
| 2.1400         | *****  | 2.1600           | 1.0007 |
| 2.3500         | *****  | 2.3700           | 1.0016 |
| 2.5500         | *****  | 2.5800           | 1.0026 |

\*\*\*\*\* - no data

Flight 33 Test point 31

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 19600. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -5.3 QBAR, lb/ft<sup>2</sup> = 343.9 Rrho = 3014000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.4494                                 | 0.1631                                  | 0.0586                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.7501 |
| 0.0500         | *****  | 0.0700           | 0.5830 |
| 0.1100         | *****  | 0.1200           | 0.1618 |
| 0.1700         | *****  | 0.1800           | 0.5372 |
| 0.2200         | *****  | 0.2100           | 0.6662 |
| 0.2700         | *****  | 0.2700           | 0.7876 |
| 0.3200         | *****  | 0.3100           | 0.8696 |
| 0.3600         | *****  | 0.3700           | 0.9348 |
| 0.4100         | *****  | 0.4200           | 0.9768 |
| 0.5100         | *****  | 0.5300           | 0.9988 |
| 0.7200         | *****  | 0.7300           | 1.0026 |
| 0.9100         | *****  | 0.9400           | 1.0032 |
| 1.1100         | *****  | 1.1500           | 0.9981 |
| 1.3000         | *****  | 1.3500           | 0.9993 |
| 1.5300         | *****  | 1.5500           | 1.0039 |
| 1.7400         | *****  | 1.7500           | 1.0039 |
| 1.9400         | *****  | 1.9500           | 1.0036 |
| 2.1400         | *****  | 2.1600           | 1.0015 |
| 2.3500         | *****  | 2.3700           | 1.0038 |
| 2.5500         | *****  | 2.5800           | 1.0044 |

\*\*\*\*\* - no data

Flight 33 Test point 32

Sweep, deg = 20.1 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = -0.6 QBAR, lb/ft<sup>2</sup> = 331.9 Rrho = 2945000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.4367                                 | 0.1556                                  | 0.0532                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4708 |
| 0.0500         | *****  | 0.0700           | 0.0799 |
| 0.1100         | *****  | 0.1200           | 0.5253 |
| 0.1700         | *****  | 0.1800           | 0.6797 |
| 0.2200         | *****  | 0.2100           | 0.7536 |
| 0.2700         | *****  | 0.2700           | 0.8393 |
| 0.3200         | *****  | 0.3100           | 0.9037 |
| 0.3600         | *****  | 0.3700           | 0.9545 |
| 0.4100         | *****  | 0.4200           | 0.9874 |
| 0.5100         | *****  | 0.5300           | 0.9999 |
| 0.7200         | *****  | 0.7500           | 1.0007 |
| 0.9100         | *****  | 0.9400           | 1.0031 |
| 1.1100         | *****  | 1.1500           | 0.9996 |
| 1.3000         | *****  | 1.3500           | 0.9980 |
| 1.5300         | *****  | 1.5500           | 1.0011 |
| 1.7400         | *****  | 1.7500           | 1.0013 |
| 1.9400         | *****  | 1.9500           | 1.0042 |
| 2.1400         | *****  | 2.1600           | 0.9995 |
| 2.3500         | *****  | 2.3700           | 1.0031 |
| 2.5500         | *****  | 2.5800           | 1.0021 |

\*\*\*\*\* - no data

Flight 33 Test point 33

Sweep, deg = 20.1 Mach = 0.71 hp, ft = 20100. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 337.1 Rrho = 2966000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.4635                                 | 0.1687                                  | 0.0634                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.7776 |
| 0.0500         | *****  | 0.0700           | 0.6278 |
| 0.1100         | *****  | 0.1200           | 0.2182 |
| 0.1700         | *****  | 0.1800           | 0.4738 |
| 0.2200         | *****  | 0.2100           | 0.6263 |
| 0.2700         | *****  | 0.2700           | 0.7555 |
| 0.3200         | *****  | 0.3100           | 0.8441 |
| 0.3600         | *****  | 0.3700           | 0.9114 |
| 0.4100         | *****  | 0.4200           | 0.9602 |
| 0.5100         | *****  | 0.5300           | 0.9992 |
| 0.7200         | *****  | 0.7300           | 1.0048 |
| 0.9100         | *****  | 0.9400           | 1.0046 |
| 1.1100         | *****  | 1.1500           | 1.0015 |
| 1.3000         | *****  | 1.3500           | 1.0000 |
| 1.5300         | *****  | 1.5500           | 1.0055 |
| 1.7400         | *****  | 1.7500           | 1.0048 |
| 1.9400         | *****  | 1.9500           | 1.0054 |
| 2.1400         | *****  | 2.1600           | 1.0042 |
| 2.3500         | *****  | 2.3700           | 1.0051 |
| 2.5500         | *****  | 2.5800           | 1.0046 |

\*\*\*\*\* - no data

Flight 33 Test point 34

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = -0.1  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 384.2 Rho = 3193000.

|                       |                               |                                |                            |                     |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.4414                        | 0.1584                         | 0.0560                     | 0.3 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4147 |
| 0.0500         | *****  | 0.0700           | 0.1614 |
| 0.1100         | *****  | 0.1200           | 0.5199 |
| 0.1700         | *****  | 0.1800           | 0.6594 |
| 0.2200         | *****  | 0.2100           | 0.7432 |
| 0.2700         | *****  | 0.2700           | 0.8297 |
| 0.3200         | *****  | 0.3100           | 0.8966 |
| 0.3600         | *****  | 0.3700           | 0.9530 |
| 0.4100         | *****  | 0.4200           | 0.9865 |
| 0.5100         | *****  | 0.5300           | 1.0003 |
| 0.7200         | *****  | 0.7300           | 1.0017 |
| 0.9100         | *****  | 0.9400           | 1.0010 |
| 1.1100         | *****  | 1.1500           | 1.0003 |
| 1.3000         | *****  | 1.3500           | 0.9996 |
| 1.5300         | *****  | 1.5500           | 1.0013 |
| 1.7400         | *****  | 1.7500           | 1.0029 |
| 1.9400         | *****  | 1.9500           | 1.0036 |
| 2.1400         | *****  | 2.1600           | 1.0008 |
| 2.3500         | *****  | 2.3700           | 1.0014 |
| 2.5500         | *****  | 2.5800           | 1.0005 |

\*\*\*\*\* - no data



Flight 33 Test point 35

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = -5.3 QBAR, lb/ft<sup>2</sup> = 385.4 Rrho = 3196000.

|                       |                               |                                |                            |                     |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.4557                        | 0.1723                         | 0.0644                     | 0.3 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.7612 |
| 0.0500         | *****  | 0.0700           | 0.6246 |
| 0.1100         | *****  | 0.1200           | 0.2321 |
| 0.1700         | *****  | 0.1800           | 0.4569 |
| 0.2200         | *****  | 0.2100           | 0.6119 |
| 0.2700         | *****  | 0.2700           | 0.7405 |
| 0.3200         | *****  | 0.3100           | 0.8331 |
| 0.3600         | *****  | 0.3700           | 0.9075 |
| 0.4100         | *****  | 0.4200           | 0.9627 |
| 0.5100         | *****  | 0.5300           | 1.0005 |
| 0.7200         | *****  | 0.7300           | 1.0037 |
| 0.9100         | *****  | 0.9400           | 1.0055 |
| 1.1100         | *****  | 1.1500           | 1.0039 |
| 1.3000         | *****  | 1.3500           | 0.9994 |
| 1.5300         | *****  | 1.5500           | 1.0059 |
| 1.7400         | *****  | 1.7500           | 1.0058 |
| 1.9400         | *****  | 1.9500           | 1.0056 |
| 2.1400         | *****  | 2.1600           | 1.0023 |
| 2.3500         | *****  | 2.3700           | 1.0033 |
| 2.5500         | *****  | 2.5800           | 1.0044 |

\*\*\*\*\* - no data

Flight 33 Test point 36

Sweep, deg = 20.1 Mach = 0.75 hp, ft = 20100. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 385.4 Rrho = 3197000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.4505                                 | 0.1685                                  | 0.0625                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4883 |
| 0.0500         | *****  | 0.0700           | 0.2163 |
| 0.1100         | *****  | 0.1200           | 0.4551 |
| 0.1700         | *****  | 0.1800           | 0.6161 |
| 0.2200         | *****  | 0.2100           | 0.6991 |
| 0.2700         | *****  | 0.2700           | 0.7916 |
| 0.3200         | *****  | 0.3100           | 0.8632 |
| 0.3600         | *****  | 0.3700           | 0.9270 |
| 0.4100         | *****  | 0.4200           | 0.9734 |
| 0.5100         | *****  | 0.5300           | 1.0026 |
| 0.7200         | *****  | 0.7300           | 1.0031 |
| 0.9100         | *****  | 0.9400           | 1.0037 |
| 1.1100         | *****  | 1.1500           | 0.9998 |
| 1.3000         | *****  | 1.3500           | 0.9998 |
| 1.5300         | *****  | 1.5500           | 1.0036 |
| 1.7400         | *****  | 1.7500           | 1.0033 |
| 1.9400         | *****  | 1.9500           | 1.0031 |
| 2.1400         | *****  | 2.1600           | 1.0029 |
| 2.3500         | *****  | 2.3700           | 1.0021 |
| 2.5500         | *****  | 2.5800           | 1.0027 |

\*\*\*\*\* - no data

Flight 33 Test point 37

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 20200. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -5.2 QBAR, lb/ft<sup>2</sup> = 375.5 Rrho = 3145000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5390                        | 0.1769                         | 0.0700                     | 0.3 x/c             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.7738             |
| 0.0500         | *****              | 0.0700           | 0.6508             |
| 0.1100         | *****              | 0.1200           | 0.3109             |
| 0.1700         | *****              | 0.1800           | 0.4039             |
| 0.2200         | *****              | 0.2100           | 0.5820             |
| 0.2700         | *****              | 0.2700           | 0.7212             |
| 0.3200         | *****              | 0.3100           | 0.8127             |
| 0.3600         | *****              | 0.3700           | 0.8889             |
| 0.4100         | *****              | 0.4200           | 0.9474             |
| 0.5100         | *****              | 0.5300           | 0.9964             |
| 0.7200         | *****              | 0.7300           | 1.0011             |
| 0.9100         | *****              | 0.9400           | 1.0015             |
| 1.1100         | *****              | 1.1500           | 0.9971             |
| 1.3000         | *****              | 1.3500           | 0.9962             |
| 1.5300         | *****              | 1.5500           | 1.0003             |
| 1.7400         | *****              | 1.7500           | 1.0019             |
| 1.9400         | *****              | 1.9500           | 1.0021             |
| 2.1400         | *****              | 2.1600           | 1.0010             |
| 2.3500         | *****              | 2.3700           | 1.0017             |
| 2.5500         | *****              | 2.5800           | 1.0007             |

\*\*\*\*\* - no data

Flight 33 Test point 38

Sweep, deg = 20.1 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 382.1 Rrho = 3183000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5308                                 | 0.2015                                  | 0.0708                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.6102 |
| 0.0500         | *****  | 0.0700           | 0.4845 |
| 0.1100         | *****  | 0.1200           | 0.1406 |
| 0.1700         | *****  | 0.1800           | 0.4581 |
| 0.2200         | *****  | 0.2100           | 0.5809 |
| 0.2700         | *****  | 0.2700           | 0.6957 |
| 0.3200         | *****  | 0.3100           | 0.7857 |
| 0.3600         | *****  | 0.3700           | 0.8671 |
| 0.4100         | *****  | 0.4200           | 0.9337 |
| 0.5100         | *****  | 0.5300           | 0.9996 |
| 0.7200         | *****  | 0.7300           | 1.0050 |
| 0.9100         | *****  | 0.9400           | 1.0060 |
| 1.1100         | *****  | 1.1500           | 1.0005 |
| 1.3000         | *****  | 1.3500           | 0.9957 |
| 1.5300         | *****  | 1.5500           | 1.0000 |
| 1.7400         | *****  | 1.7500           | 0.9985 |
| 1.9400         | *****  | 1.9500           | 1.0004 |
| 2.1400         | *****  | 2.1600           | 0.9985 |
| 2.3500         | *****  | 2.3700           | 0.9983 |
| 2.5500         | *****  | 2.5800           | 0.9976 |

\*\*\*\*\* - no data

Flight 33 Test point 39

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 20300. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 374.3 Rrho = 3133000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.6726                        | 0.1969                         | 0.0785                     | 0.3 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.8353 |
| 0.0500         | *****  | 0.0700           | 0.7804 |
| 0.1100         | *****  | 0.1200           | 0.5822 |
| 0.1700         | *****  | 0.1800           | 0.3064 |
| 0.2200         | *****  | 0.2100           | 0.3374 |
| 0.2700         | *****  | 0.2700           | 0.5720 |
| 0.3200         | *****  | 0.3100           | 0.5990 |
| 0.3600         | *****  | 0.3700           | 0.8043 |
| 0.4100         | *****  | 0.4200           | 0.8856 |
| 0.5100         | *****  | 0.5300           | 0.9891 |
| 0.7200         | *****  | 0.7300           | 1.0038 |
| 0.9100         | *****  | 0.9400           | 1.0046 |
| 1.1100         | *****  | 1.1500           | 0.9970 |
| 1.3000         | *****  | 1.3500           | 0.9957 |
| 1.5300         | *****  | 1.5500           | 0.9986 |
| 1.7400         | *****  | 1.7500           | 0.9979 |
| 1.9400         | *****  | 1.9500           | 1.0008 |
| 2.1400         | *****  | 2.1600           | 0.9994 |
| 2.3500         | *****  | 2.3700           | 1.0012 |
| 2.5500         | *****  | 2.5800           | 1.0011 |

\*\*\*\*\* - no data

Flight 33 Test point 40

Sweep, deg = 25.4 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 385.1 Rho = 3197000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5537                                 | 0.1679                                  | 0.0721                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3267 |
| 0.0500         | *****  | 0.0700           | 0.4652 |
| 0.1100         | *****  | 0.1200           | 0.5855 |
| 0.1700         | *****  | 0.1800           | 0.6682 |
| 0.2200         | *****  | 0.2100           | 0.7147 |
| 0.2700         | *****  | 0.2700           | 0.7790 |
| 0.3200         | *****  | 0.3100           | 0.8323 |
| 0.3600         | *****  | 0.3700           | 0.8804 |
| 0.4100         | *****  | 0.4200           | 0.9237 |
| 0.5100         | *****  | 0.5300           | 0.9875 |
| 0.7200         | *****  | 0.7300           | 1.0026 |
| 0.9100         | *****  | 0.9400           | 1.0029 |
| 1.1100         | *****  | 1.1500           | 0.9993 |
| 1.3000         | *****  | 1.3500           | 0.9977 |
| 1.5300         | *****  | 1.5500           | 1.0014 |
| 1.7400         | *****  | 1.7500           | 1.0016 |
| 1.9400         | *****  | 1.9500           | 1.0026 |
| 2.1400         | *****  | 2.1600           | 1.0010 |
| 2.3500         | *****  | 2.3700           | 1.0014 |
| 2.5500         | *****  | 2.5800           | 1.0020 |

\*\*\*\*\* - no data

Flight 33 Test point 41

Sweep, deg = 25.4 Mach = 0.76 hp, ft = 20000. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 392.2 Rrho = 3230000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5514                                 | 0.1770                                  | 0.0742                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.2940 |
| 0.0500         | *****  | 0.0700           | 0.4405 |
| 0.1100         | *****  | 0.1200           | 0.5648 |
| 0.1700         | *****  | 0.1800           | 0.6466 |
| 0.2200         | *****  | 0.2100           | 0.6998 |
| 0.2700         | *****  | 0.2700           | 0.7618 |
| 0.3200         | *****  | 0.3100           | 0.8152 |
| 0.3600         | *****  | 0.3700           | 0.8663 |
| 0.4100         | *****  | 0.4200           | 0.9132 |
| 0.5100         | *****  | 0.5300           | 0.9869 |
| 0.7200         | *****  | 0.7300           | 1.0016 |
| 0.9100         | *****  | 0.9400           | 1.0031 |
| 1.1100         | *****  | 1.1500           | 0.9999 |
| 1.3000         | *****  | 1.3500           | 0.9976 |
| 1.5300         | *****  | 1.5500           | 1.0022 |
| 1.7400         | *****  | 1.7500           | 1.0002 |
| 1.9400         | *****  | 1.9500           | 1.0027 |
| 2.1400         | *****  | 2.1600           | 1.0016 |
| 2.3500         | *****  | 2.3700           | 1.0026 |
| 2.5500         | *****  | 2.5800           | 1.0014 |

\*\*\*\*\* - no data

Flight 33 Test point 42

Sweep, deg = 25.4 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 384.3 Rrho = 3194000.

|                       | Boundary layer<br>height, In. | Displacement<br>thickness, In. | Momentum<br>thickness, In. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.4745                        | 0.1540                         | 0.0646                     | 0.3 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, In.         | U/Umax | Y, In.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3375 |
| 0.0500         | *****  | 0.0700           | 0.4812 |
| 0.1100         | *****  | 0.1200           | 0.6077 |
| 0.1700         | *****  | 0.1800           | 0.6860 |
| 0.2200         | *****  | 0.2100           | 0.7392 |
| 0.2700         | *****  | 0.2700           | 0.8032 |
| 0.3200         | *****  | 0.3100           | 0.8575 |
| 0.3600         | *****  | 0.3700           | 0.9099 |
| 0.4100         | *****  | 0.4200           | 0.9548 |
| 0.5100         | *****  | 0.5300           | 1.0022 |
| 0.7200         | *****  | 0.7300           | 1.0050 |
| 0.9100         | *****  | 0.9400           | 1.0057 |
| 1.1100         | *****  | 1.1500           | 1.0016 |
| 1.3000         | *****  | 1.3500           | 1.0010 |
| 1.5300         | *****  | 1.5500           | 1.0049 |
| 1.7400         | *****  | 1.7500           | 1.0034 |
| 1.9400         | *****  | 1.9500           | 1.0070 |
| 2.1400         | *****  | 2.1600           | 1.0040 |
| 2.3500         | *****  | 2.3700           | 1.0046 |
| 2.5500         | *****  | 2.5800           | 1.0059 |

\*\*\*\*\* - no data



Flight 33 Test point 43

Sweep, deg = 30.0 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 381.4 Rrho = 3181000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.6001                                 | 0.1572                                  | 0.0756                              | 0.3 x/c                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5329 |
| 0.0500         | *****  | 0.0700           | 0.5780 |
| 0.1100         | *****  | 0.1200           | 0.6450 |
| 0.1700         | *****  | 0.1800           | 0.6935 |
| 0.2200         | *****  | 0.2100           | 0.7348 |
| 0.2700         | *****  | 0.2700           | 0.7840 |
| 0.3200         | *****  | 0.3100           | 0.8265 |
| 0.3600         | *****  | 0.3700           | 0.8690 |
| 0.4100         | *****  | 0.4200           | 0.9064 |
| 0.5100         | *****  | 0.5300           | 0.9728 |
| 0.7200         | *****  | 0.7300           | 1.0034 |
| 0.9100         | *****  | 0.9400           | 1.0051 |
| 1.1100         | *****  | 1.1500           | 1.0013 |
| 1.3000         | *****  | 1.3500           | 0.9990 |
| 1.5300         | *****  | 1.5500           | 1.0032 |
| 1.7400         | *****  | 1.7500           | 1.0027 |
| 1.9400         | *****  | 1.9500           | 1.0039 |
| 2.1400         | *****  | 2.1600           | 1.0011 |
| 2.3500         | *****  | 2.3700           | 1.0026 |
| 2.5500         | *****  | 2.5800           | 1.0048 |

\*\*\*\*\* - no data

Flight 33 Test point 44

Sweep, deg = 30.0 Mach = 0.75 hp, ft = 20100. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 386.3 Rnpu = 3201000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7319                        | 0.1754                         | 0.0844                     | 0.3 x/c             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.4996             |
| 0.0500         | *****              | 0.0700           | 0.5493             |
| 0.1100         | *****              | 0.1200           | 0.6168             |
| 0.1700         | *****              | 0.1800           | 0.6644             |
| 0.2200         | *****              | 0.2100           | 0.7060             |
| 0.2700         | *****              | 0.2700           | 0.7557             |
| 0.3200         | *****              | 0.3100           | 0.8000             |
| 0.3600         | *****              | 0.3700           | 0.8452             |
| 0.4100         | *****              | 0.4200           | 0.8836             |
| 0.5100         | *****              | 0.5300           | 0.9531             |
| 0.7200         | *****              | 0.7300           | 0.9996             |
| 0.9100         | *****              | 0.9400           | 1.0019             |
| 1.1100         | *****              | 1.1500           | 0.9980             |
| 1.3000         | *****              | 1.3500           | 0.9971             |
| 1.5300         | *****              | 1.5500           | 1.0012             |
| 1.7400         | *****              | 1.7500           | 1.0004             |
| 1.9400         | *****              | 1.9500           | 1.0010             |
| 2.1400         | *****              | 2.1600           | 0.9989             |
| 2.3500         | *****              | 2.3700           | 1.0011             |
| 2.5500         | *****              | 2.5800           | 1.0009             |

\*\*\*\*\* - no data

Flight 33 Test point 45

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = -0.3  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 434.8 Rrho = 3418000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7162                        | 0.2398                         | 0.0813                     | 0.3 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5607 |
| 0.0500         | *****  | 0.0700           | 0.5120 |
| 0.1100         | *****  | 0.1200           | 0.2949 |
| 0.1700         | *****  | 0.1800           | 0.2714 |
| 0.2200         | *****  | 0.2100           | 0.4508 |
| 0.2700         | *****  | 0.2700           | 0.5935 |
| 0.3200         | *****  | 0.3100           | 0.7001 |
| 0.3600         | *****  | 0.3700           | 0.7983 |
| 0.4100         | *****  | 0.4200           | 0.8760 |
| 0.5100         | *****  | 0.5300           | 0.9810 |
| 0.7200         | *****  | 0.7300           | 1.0012 |
| 0.9100         | *****  | 0.9400           | 1.0021 |
| 1.1100         | *****  | 1.1500           | 0.9998 |
| 1.3000         | *****  | 1.3500           | 0.9991 |
| 1.5300         | *****  | 1.5500           | 1.0014 |
| 1.7400         | *****  | 1.7500           | 1.0009 |
| 1.9400         | *****  | 1.9500           | 1.0017 |
| 2.1400         | *****  | 2.1600           | 0.9983 |
| 2.3500         | *****  | 2.3700           | 0.9982 |
| 2.5500         | *****  | 2.5800           | 0.9974 |

\*\*\*\*\* - no data

Flight 33 Test point 46

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 436.5 Rrho = 3424000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7087                        | 0.2340                         | 0.0819                     | 0.3 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.6731 |
| 0.0500         | *****  | 0.0700           | 0.6591 |
| 0.1100         | *****  | 0.1200           | 0.5070 |
| 0.1700         | *****  | 0.1800           | 0.3144 |
| 0.2200         | *****  | 0.2100           | 0.2555 |
| 0.2700         | *****  | 0.2700           | 0.4996 |
| 0.3200         | *****  | 0.3100           | 0.6438 |
| 0.3600         | *****  | 0.3700           | 0.7683 |
| 0.4000         | *****  | 0.4200           | 0.8673 |
| 0.5100         | *****  | 0.5300           | 0.9880 |
| 0.7200         | *****  | 0.7300           | 1.0012 |
| 0.9100         | *****  | 0.9400           | 1.0019 |
| 1.1100         | *****  | 1.1500           | 0.9996 |
| 1.3000         | *****  | 1.3500           | 0.9989 |
| 1.5300         | *****  | 1.5500           | 1.0011 |
| 1.7400         | *****  | 1.7500           | 1.0001 |
| 1.9400         | *****  | 1.9500           | 1.0007 |
| 2.1400         | *****  | 2.1600           | 0.9989 |
| 2.3500         | *****  | 2.3700           | 0.9994 |
| 2.5500         | *****  | 2.5800           | 0.9981 |

\*\*\*\*\* - no data

Flight 33 Test point 47

Sweep, deg = 20.0 Mach = 0.81 hp, ft = 20000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 439.4 Rho = 3440000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7012                        | 0.2356                         | 0.0768                     | 0.3 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5286 |
| 0.0500         | *****  | 0.0700           | 0.4726 |
| 0.1100         | *****  | 0.1200           | 0.2245 |
| 0.1700         | *****  | 0.1800           | 0.3264 |
| 0.2200         | *****  | 0.2100           | 0.4850 |
| 0.2700         | *****  | 0.2700           | 0.6236 |
| 0.3200         | *****  | 0.3100           | 0.7280 |
| 0.3600         | *****  | 0.3700           | 0.8229 |
| 0.4100         | *****  | 0.4200           | 0.8953 |
| 0.5100         | *****  | 0.5300           | 0.9865 |
| 0.7200         | *****  | 0.7300           | 1.0020 |
| 0.9100         | *****  | 0.9400           | 1.0029 |
| 1.1100         | *****  | 1.1500           | 1.0004 |
| 1.3000         | *****  | 1.3500           | 0.9997 |
| 1.5300         | *****  | 1.5500           | 1.0019 |
| 1.7400         | *****  | 1.7500           | 1.0013 |
| 1.9400         | *****  | 1.9500           | 1.0012 |
| 2.1400         | *****  | 2.1600           | 0.9986 |
| 2.3500         | *****  | 2.3700           | 0.9955 |
| 2.5500         | *****  | 2.5800           | 0.9964 |

\*\*\*\*\* - no data

Flight 33 Test point 48

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20200. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 431.2 Rrho = 3395000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7171                        | 0.2446                         | 0.0831                     | 0.3 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.6690 |
| 0.0500         | *****  | 0.0700           | 0.6615 |
| 0.1100         | *****  | 0.1200           | 0.5098 |
| 0.1700         | *****  | 0.1800           | 0.3373 |
| 0.2200         | *****  | 0.2100           | 0.1843 |
| 0.2700         | *****  | 0.2700           | 0.4650 |
| 0.3200         | *****  | 0.3100           | 0.6160 |
| 0.3600         | *****  | 0.3700           | 0.7432 |
| 0.4100         | *****  | 0.4200           | 0.8466 |
| 0.5100         | *****  | 0.5300           | 0.9816 |
| 0.7200         | *****  | 0.7300           | 1.0011 |
| 0.9100         | *****  | 0.9400           | 1.0014 |
| 1.1100         | *****  | 1.1500           | 1.0003 |
| 1.3000         | *****  | 1.3500           | 0.9999 |
| 1.5300         | *****  | 1.5500           | 1.0017 |
| 1.7400         | *****  | 1.7500           | 1.0003 |
| 1.9400         | *****  | 1.9500           | 1.0005 |
| 2.1400         | *****  | 2.1600           | 0.9981 |
| 2.3500         | *****  | 2.3700           | 0.9982 |
| 2.5500         | *****  | 2.5800           | 0.9986 |

\*\*\*\*\* - no data

Flight 33 Test point 49

Sweep, deg = 20.0 Mach = 0.81 hp, ft = 20200. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 438.4 Rnpu = 3430000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.6969                                 | 0.2354                                  | 0.0763                              | 0.3 x/c                     |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.5279             |
| 0.0500         | *****              | 0.0700           | 0.4733             |
| 0.1100         | *****              | 0.1200           | 0.2161             |
| 0.1700         | *****              | 0.1800           | 0.3337             |
| 0.2200         | *****              | 0.2100           | 0.4892             |
| 0.2700         | *****              | 0.2700           | 0.6260             |
| 0.3200         | *****              | 0.3100           | 0.7274             |
| 0.3600         | *****              | 0.3700           | 0.8246             |
| 0.4100         | *****              | 0.4200           | 0.8964             |
| 0.5100         | *****              | 0.5300           | 0.9876             |
| 0.7200         | *****              | 0.7300           | 1.0021             |
| 0.9100         | *****              | 0.9400           | 1.0030             |
| 1.1100         | *****              | 1.1500           | 1.0008             |
| 1.3000         | *****              | 1.3500           | 1.0000             |
| 1.5300         | *****              | 1.5500           | 1.0017             |
| 1.7400         | *****              | 1.7500           | 1.0017             |
| 1.9400         | *****              | 1.9500           | 1.0014             |
| 2.1400         | *****              | 2.1600           | 0.9981             |
| 2.3500         | *****              | 2.3700           | 0.9952             |
| 2.5500         | *****              | 2.5800           | 0.9958             |

\*\*\*\*\* - no data

Flight 33 Test point 50

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20200. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -5.3 QBAR, lb/ft<sup>2</sup> = 433.9 Rnpu = 3407000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7132                        | 0.2479                         | 0.0833                     | 0.3 x/c             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.6596 |
| 0.0500         | *****  | 0.0700           | 0.6531 |
| 0.1100         | *****  | 0.1200           | 0.5074 |
| 0.1700         | *****  | 0.1800           | 0.3485 |
| 0.2200         | *****  | 0.2100           | 0.1660 |
| 0.2700         | *****  | 0.2700           | 0.4585 |
| 0.3200         | *****  | 0.3100           | 0.6088 |
| 0.3600         | *****  | 0.3700           | 0.7385 |
| 0.4100         | *****  | 0.4200           | 0.8405 |
| 0.5100         | *****  | 0.5300           | 0.9804 |
| 0.7200         | *****  | 0.7300           | 1.0016 |
| 0.9100         | *****  | 0.9400           | 1.0025 |
| 1.1100         | *****  | 1.1500           | 1.0006 |
| 1.3000         | *****  | 1.3500           | 1.0002 |
| 1.5300         | *****  | 1.5500           | 1.0009 |
| 1.7400         | *****  | 1.7500           | 1.0007 |
| 1.9400         | *****  | 1.9500           | 1.0008 |
| 2.1400         | *****  | 2.1600           | 0.9986 |
| 2.3500         | *****  | 2.3700           | 0.9971 |
| 2.5500         | *****  | 2.5800           | 0.9970 |

\*\*\*\*\* - no data



Flight 34 Test point 1

Sweep, deg = 20.0 Mach = 0.60 hp, ft = 10000. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 372.1 Rrho = 3596000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.3337                                 | 0.1072                                  | 0.0429                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3017 |
| 0.0500         | *****  | 0.0700           | 0.5256 |
| 0.1100         | *****  | 0.1200           | 0.6911 |
| 0.1700         | *****  | 0.1800           | 0.8010 |
| 0.2200         | *****  | 0.2100           | 0.8652 |
| 0.2700         | *****  | 0.2700           | 0.9339 |
| 0.3200         | *****  | 0.3100           | 0.9765 |
| 0.3600         | *****  | 0.3700           | 0.9964 |
| 0.4100         | *****  | 0.4200           | 1.0001 |
| 0.5100         | *****  | 0.5300           | 1.0014 |
| 0.7200         | *****  | 0.7300           | 1.0025 |
| 0.9100         | *****  | 0.9400           | 1.0040 |
| 1.1100         | *****  | 1.1500           | 1.0005 |
| 1.3000         | *****  | 1.3500           | 0.9984 |
| 1.5300         | *****  | 1.5500           | 1.0029 |
| 1.7400         | *****  | 1.7500           | 1.0038 |
| 1.9400         | *****  | 1.9500           | 1.0047 |
| 2.1400         | *****  | 2.1600           | 1.0027 |
| 2.3500         | *****  | 2.3700           | 1.0035 |
| 2.5500         | *****  | 2.5800           | 1.0027 |

\*\*\*\*\* - no data

Flight 34 Test point 2

Angle of sweep, deg = 20.0 Mach = 0.60 hp, ft = 10000. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 371.9 Rrho = 3601000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.4123                                 | 0.1279                                  | 0.0498                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.1926 |
| 0.0500         | *****  | 0.0700           | 0.4678 |
| 0.1100         | *****  | 0.1200           | 0.6488 |
| 0.1700         | *****  | 0.1800           | 0.7519 |
| 0.2200         | *****  | 0.2100           | 0.8165 |
| 0.2700         | *****  | 0.2700           | 0.8837 |
| 0.3200         | *****  | 0.3100           | 0.9346 |
| 0.3600         | *****  | 0.3700           | 0.9747 |
| 0.4100         | *****  | 0.4200           | 0.9952 |
| 0.5100         | *****  | 0.5300           | 1.0020 |
| 0.7200         | *****  | 0.7300           | 1.0026 |
| 0.9100         | *****  | 0.9400           | 1.0044 |
| 1.1100         | *****  | 1.1500           | 1.0008 |
| 1.3000         | *****  | 1.3500           | 0.9985 |
| 1.5300         | *****  | 1.5500           | 1.0037 |
| 1.7400         | *****  | 1.7500           | 1.0038 |
| 1.9400         | *****  | 1.9500           | 1.0050 |
| 2.1400         | *****  | 2.1600           | 1.0021 |
| 2.3500         | *****  | 2.3700           | 1.0045 |
| 2.5500         | *****  | 2.5800           | 1.0027 |

\*\*\*\*\* - no data

Flight 34 Test point 3

Sweep, deg = 23.4 Mach = 0.60 hp, ft = 10000. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 368.8 Rrho = 358600<sup>o</sup>.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.3319                                 | 0.0892                                  | 0.0414                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5466 |
| 0.0500         | *****  | 0.0700           | 0.6406 |
| 0.1100         | *****  | 0.1200           | 0.7414 |
| 0.1700         | *****  | 0.1800           | 0.8242 |
| 0.2200         | *****  | 0.2100           | 0.8784 |
| 0.2700         | *****  | 0.2700           | 0.9370 |
| 0.3200         | *****  | 0.3100           | 0.9787 |
| 0.3600         | *****  | 0.3700           | 0.9963 |
| 0.4100         | *****  | 0.4200           | 1.0008 |
| 0.5100         | *****  | 0.5300           | 1.0025 |
| 0.7200         | *****  | 0.7300           | 1.0019 |
| 0.9100         | *****  | 0.9400           | 1.0043 |
| 1.1100         | *****  | 1.1500           | 0.9999 |
| 1.3000         | *****  | 1.3500           | 0.9985 |
| 1.5300         | *****  | 1.5500           | 1.0021 |
| 1.7400         | *****  | 1.7500           | 1.0034 |
| 1.9400         | *****  | 1.9500           | 1.0027 |
| 2.1400         | *****  | 2.1600           | 1.0017 |
| 2.3500         | *****  | 2.3700           | 1.0032 |
| 2.5500         | *****  | 2.5800           | 1.0040 |

\*\*\*\*\* - no data

Flight 34 Test point 4

Sweep, deg = 23.4 Mach = 0.60 hp, ft = 10100. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 364.2 R<sub>npu</sub> = 3558000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.3325                        | 0.0895                         | 0.0416                     | none                |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.5470             |
| 0.0500         | *****              | 0.0700           | 0.6397             |
| 0.1100         | *****              | 0.1200           | 0.7393             |
| 0.1700         | *****              | 0.1800           | 0.8220             |
| 0.2200         | *****              | 0.2100           | 0.8782             |
| 0.2700         | *****              | 0.2700           | 0.9366             |
| 0.3200         | ****               | 0.3100           | 0.9782             |
| 0.3600         | *****              | 0.3700           | 0.9958             |
| 0.4100         | *****              | 0.4200           | 1.0003             |
| 0.5100         | *****              | 0.5300           | 1.0026             |
| 0.7200         | *****              | 0.7300           | 1.0029             |
| 0.9100         | *****              | 0.9400           | 1.0047             |
| 1.1100         | *****              | 1.1500           | 0.9993             |
| 1.3000         | *****              | 1.3500           | 0.9982             |
| 1.5300         | *****              | 1.5500           | 1.0022             |
| 1.7400         | *****              | 1.7500           | 1.0028             |
| 1.9400         | *****              | 1.9500           | 1.0036             |
| 2.1400         | *****              | 2.1600           | 1.0020             |
| 2.3500         | *****              | 2.3700           | 1.0034             |
| 2.5500         | *****              | 2.5800           | 1.0039             |

\*\*\*\*\* - no data

Flight 34 Test point 5

Sweep, deg = 23.4 Mach = 0.60 hp, ft = 9900. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 371.4 Rnpu = 3604090.

|                       |                               |                                |                            |                     |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.4367                        | 0.1069                         | 0.0514                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5106 |
| 0.0500         | *****  | 0.0700           | 0.6082 |
| 0.1100         | *****  | 0.1200           | 0.7040 |
| 0.1700         | *****  | 0.1800           | 0.7791 |
| 0.2200         | *****  | 0.2100           | 0.8286 |
| 0.2700         | *****  | 0.2700           | 0.8879 |
| 0.3200         | *****  | 0.3100           | 0.9322 |
| 0.3600         | *****  | 0.3700           | 0.9706 |
| 0.4100         | *****  | 0.4200           | 0.9898 |
| 0.5100         | *****  | 0.5300           | 1.0020 |
| 0.7200         | *****  | 0.7300           | 1.0012 |
| 0.9100         | *****  | 0.9400           | 1.0021 |
| 1.1100         | *****  | 1.1500           | 0.9983 |
| 1.3000         | *****  | 1.3500           | 0.9968 |
| 1.5300         | *****  | 1.5500           | 1.0014 |
| 1.7400         | *****  | 1.7500           | 1.0017 |
| 1.9400         | *****  | 1.9500           | 1.0024 |
| 2.1400         | *****  | 2.1600           | 1.0007 |
| 2.3500         | *****  | 2.3700           | 1.0022 |
| 2.5500         | *****  | 2.5800           | 1.0015 |

\*\*\*\*\* - no data

Flight 34 Test point 6

Sweep, deg = 25.0 Mach = 0.60 hp, ft = 10000. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 365.8 Rrho = 3573000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.3827                        | 0.0916                         | 0.0445                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5869 |
| 0.0500         | *****  | 0.0700           | 0.6577 |
| 0.1100         | *****  | 0.1200           | 0.7404 |
| 0.1700         | *****  | 0.1800           | 0.8099 |
| 0.2200         | *****  | 0.2100           | 0.8626 |
| 0.2700         | *****  | 0.2700           | 0.9167 |
| 0.3200         | *****  | 0.3100           | 0.9589 |
| 0.3600         | *****  | 0.3700           | 0.9868 |
| 0.4100         | *****  | 0.4200           | 0.9994 |
| 0.5100         | *****  | 0.5300           | 1.0025 |
| 0.7200         | *****  | 0.7300           | 1.0036 |
| 0.9100         | *****  | 0.9400           | 1.0025 |
| 1.1100         | *****  | 1.1500           | 0.9986 |
| 1.3000         | *****  | 1.3500           | 0.9974 |
| 1.5300         | *****  | 1.5500           | 1.0012 |
| 1.7400         | *****  | 1.7500           | 1.0028 |
| 1.9400         | *****  | 1.9500           | 1.0020 |
| 2.1400         | *****  | 2.1600           | 1.0012 |
| 2.3500         | *****  | 2.3700           | 1.0010 |
| 2.5500         | *****  | 2.5800           | 1.0011 |

\*\*\*\*\* - no data

Flight 34 Test point 7

Sweep, deg = 25.0 Mach = 0.61 hp, ft = 9900. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 373.8 Rho = 3619000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     | none                        |
| Outboard station rake | 0.3906                                 | 0.0959                                  | 0.0467                              | none                        |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.5824             |
| 0.0500         | *****              | 0.0700           | 0.6491             |
| 0.1100         | *****              | 0.1200           | 0.7305             |
| 0.1700         | *****              | 0.1800           | 0.7971             |
| 0.2200         | *****              | 0.2100           | 0.8481             |
| 0.2700         | *****              | 0.2700           | 0.9036             |
| 0.3200         | *****              | 0.3100           | 0.9489             |
| 0.3600         | *****              | 0.3700           | 0.9806             |
| 0.4100         | *****              | 0.4200           | 0.9966             |
| 0.5100         | *****              | 0.5300           | 1.0025             |
| 0.7200         | *****              | 0.7300           | 1.0028             |
| 0.9100         | *****              | 0.9400           | 1.0043             |
| 1.1100         | *****              | 1.1500           | 0.9999             |
| 1.3000         | *****              | 1.3500           | 0.9977             |
| 1.5300         | *****              | 1.5500           | 1.0018             |
| 1.7400         | *****              | 1.7500           | 1.0031             |
| 1.9400         | *****              | 1.9500           | 1.0032             |
| 2.1400         | *****              | 2.1600           | 1.0022             |
| 2.3500         | *****              | 2.3700           | 1.0034             |
| 2.5500         | *****              | 2.5800           | 1.0019             |

\*\*\*\*\* - no data

Flight 34 Test point 8

Sweep, deg = 25.0 Mach = 0.60 hp, ft = 10000. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 370.0 Rrho = 3600000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.4553                        | 0.1096                         | 0.0545                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5527 |
| 0.0500         | *****  | 0.0700           | 0.6265 |
| 0.1100         | *****  | 0.1200           | 0.7066 |
| 0.1700         | *****  | 0.1800           | 0.7727 |
| 0.2200         | *****  | 0.2100           | 0.8170 |
| 0.2700         | *****  | 0.2700           | 0.8702 |
| 0.3200         | *****  | 0.3100           | 0.9140 |
| 0.3600         | *****  | 0.3700           | 0.9516 |
| 0.4100         | *****  | 0.4200           | 0.9817 |
| 0.5100         | *****  | 0.5300           | 1.0019 |
| 0.7200         | *****  | 0.7300           | 1.0031 |
| 0.9100         | *****  | 0.9400           | 1.0030 |
| 1.1100         | *****  | 1.1500           | 0.9992 |
| 1.3000         | *****  | 1.3500           | 0.9974 |
| 1.5300         | *****  | 1.5500           | 1.0017 |
| 1.7400         | *****  | 1.7500           | 1.0025 |
| 1.9400         | *****  | 1.9500           | 1.0036 |
| 2.1400         | *****  | 2.1600           | 1.0003 |
| 2.3500         | *****  | 2.3700           | 1.0026 |
| 2.5500         | *****  | 2.5800           | 1.0031 |

\*\*\*\*\* - no data



Flight 34 Test point 9

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = -0.1  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 499.3 Rrho = 4219000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5541                        | 0.1409                         | 0.0677                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4833 |
| 0.0500         | *****  | 0.0700           | 0.5714 |
| 0.1100         | *****  | 0.1200           | 0.6599 |
| 0.1700         | *****  | 0.1800           | 0.7227 |
| 0.2200         | *****  | 0.2100           | 0.7652 |
| 0.2700         | *****  | 0.2700           | 0.8168 |
| 0.3200         | *****  | 0.3100           | 0.8606 |
| 0.3600         | *****  | 0.3700           | 0.9004 |
| 0.4100         | *****  | 0.4200           | 0.9349 |
| 0.5100         | *****  | 0.5300           | 0.9874 |
| 0.7200         | *****  | 0.7300           | 1.0010 |
| 0.9100         | *****  | 0.9400           | 1.0031 |
| 1.1100         | *****  | 1.1500           | 0.9997 |
| 1.3000         | *****  | 1.3500           | 0.9988 |
| 1.5300         | *****  | 1.5500           | 1.0020 |
| 1.7400         | *****  | 1.7500           | 1.0014 |
| 1.9400         | *****  | 1.9500           | 1.0023 |
| 2.1400         | *****  | 2.1600           | 1.0005 |
| 2.3500         | *****  | 2.3700           | 1.0020 |
| 2.5500         | *****  | 2.5800           | 1.0019 |

\*\*\*\*\* - no data

Flight 34 Test point 10

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 10100. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 495.0 Rrho = 4194000.

|                       | Boundary layer<br>height, In. | Displacement<br>thickness, In. | Momentum<br>thickness, In. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5076                        | 0.1406                         | 0.0655                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, In.         | U/Umax | Y, In.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4597 |
| 0.0500         | *****  | 0.0700           | 0.5576 |
| 0.1100         | *****  | 0.1200           | 0.6506 |
| 0.1700         | *****  | 0.1800           | 0.7195 |
| 0.2200         | *****  | 0.2100           | 0.7668 |
| 0.2700         | *****  | 0.2700           | 0.8181 |
| 0.3200         | *****  | 0.3100           | 0.8647 |
| 0.3600         | *****  | 0.3700           | 0.9066 |
| 0.4100         | *****  | 0.4200           | 0.9429 |
| 0.5100         | *****  | 0.5300           | 0.9923 |
| 0.7200         | *****  | 0.7300           | 1.0008 |
| 0.9100         | *****  | 0.9400           | 1.0027 |
| 1.1100         | *****  | 1.1500           | 0.9993 |
| 1.3000         | *****  | 1.3500           | 0.9979 |
| 1.5300         | *****  | 1.5500           | 1.0002 |
| 1.7400         | *****  | 1.7500           | 1.0002 |
| 1.9400         | *****  | 1.9500           | 1.0023 |
| 2.1400         | *****  | 2.1600           | 1.0010 |
| 2.3500         | *****  | 2.3700           | 1.0021 |
| 2.5500         | *****  | 2.5800           | 1.0012 |

\*\*\*\*\* - no data

Flight 34 Test point 11

Sweep, deg = 24.9 Mach = 0.70 hp, ft = 10300. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 492.2 Rrho = 4171000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5105                        | 0.1459                         | 0.0666                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4251 |
| 0.0500         | *****  | 0.0700           | 0.5313 |
| 0.1100         | *****  | 0.1200           | 0.6386 |
| 0.1700         | *****  | 0.1800           | 0.7113 |
| 0.2200         | *****  | 0.2100           | 0.7587 |
| 0.2700         | *****  | 0.2700           | 0.8134 |
| 0.3200         | *****  | 0.3100           | 0.8586 |
| 0.3600         | *****  | 0.3700           | 0.9022 |
| 0.4100         | *****  | 0.4200           | 0.9395 |
| 0.5100         | *****  | 0.5300           | 0.9913 |
| 0.7200         | *****  | 0.7300           | 1.0015 |
| 0.9100         | *****  | 0.9400           | 1.0023 |
| 1.1100         | *****  | 1.1500           | 0.9996 |
| 1.3000         | *****  | 1.3500           | 0.9985 |
| 1.5300         | *****  | 1.5500           | 1.0005 |
| 1.7400         | *****  | 1.7500           | 1.0007 |
| 1.9400         | *****  | 1.9500           | 1.0023 |
| 2.1400         | *****  | 2.1600           | 1.0009 |
| 2.3500         | *****  | 2.3700           | 1.0018 |
| 2.5500         | *****  | 2.5800           | 1.0006 |

\*\*\*\*\* - no data

Flight 34 Test point 12

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 10100. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 497.8 Rrho = 4211000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.4204                        | 0.1426                         | 0.0546                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3478 |
| 0.0500         | *****  | 0.0700           | 0.3141 |
| 0.1100         | *****  | 0.1200           | 0.5813 |
| 0.1700         | *****  | 0.1800           | 0.7098 |
| 0.2200         | *****  | 0.2100           | 0.7812 |
| 0.2700         | *****  | 0.2700           | 0.8579 |
| 0.3200         | *****  | 0.3100           | 0.9150 |
| 0.3600         | *****  | 0.3700           | 0.9634 |
| 0.4100         | *****  | 0.4200           | 0.9914 |
| 0.5100         | *****  | 0.5300           | 0.9998 |
| 0.7200         | *****  | 0.7300           | 1.0010 |
| 0.9100         | *****  | 0.9400           | 1.0022 |
| 1.1100         | *****  | 1.1500           | 0.9993 |
| 1.3000         | *****  | 1.3500           | 0.9980 |
| 1.5300         | *****  | 1.5500           | 1.0020 |
| 1.7400         | *****  | 1.7500           | 1.0000 |
| 1.9400         | *****  | 1.9500           | 1.0022 |
| 2.1400         | *****  | 2.1600           | 1.0012 |
| 2.3500         | *****  | 2.3700           | 1.0019 |
| 2.5500         | *****  | 2.5800           | 1.0010 |

\*\*\*\*\* - no data

Flight 34 Test point 13

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 10000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 502.9 Rrho = 4240000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     | none                        |
| Outboard station rake | 0.3253                                 | 0.1103                                  | 0.0424                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.6631 |
| 0.0500         | *****  | 0.0700           | 0.3403 |
| 0.1100         | *****  | 0.1200           | 0.5585 |
| 0.1700         | *****  | 0.1800           | 0.7677 |
| 0.2200         | *****  | 0.2100           | 0.8747 |
| 0.2700         | *****  | 0.2700           | 0.9588 |
| 0.3200         | *****  | 0.3100           | 0.9892 |
| 0.3600         | *****  | 0.3700           | 0.9968 |
| 0.4100         | *****  | 0.4200           | 0.9967 |
| 0.5100         | *****  | 0.5300           | 0.9972 |
| 0.7200         | *****  | 0.7300           | 1.0002 |
| 0.9100         | *****  | 0.9400           | 1.0022 |
| 1.1100         | *****  | 1.1500           | 1.0000 |
| 1.3000         | *****  | 1.3500           | 0.9994 |
| 1.5300         | *****  | 1.5500           | 1.0034 |
| 1.7400         | *****  | 1.7500           | 1.0028 |
| 1.9400         | *****  | 1.9500           | 1.0032 |
| 2.1400         | *****  | 2.1600           | 1.0018 |
| 2.3500         | *****  | 2.3700           | 1.0036 |
| 2.5500         | *****  | 2.5800           | 1.0037 |

\*\*\*\*\* - no data

Flight 34 Test point 14

Sweep, deg = 20.0 Mach = 0.71 hp, ft = 10100. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 503.8 Rrho = 4234000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.3758                                 | 0.1288                                  | 0.0479                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3361 |
| 0.0500         | *****  | 0.0700           | 0.3434 |
| 0.1100         | *****  | 0.1200           | 0.6092 |
| 0.1700         | *****  | 0.1800           | 0.7439 |
| 0.2200         | *****  | 0.2100           | 0.8241 |
| 0.2700         | *****  | 0.2700           | 0.9023 |
| 0.3200         | *****  | 0.3100           | 0.9551 |
| 0.3600         | *****  | 0.3700           | 0.9883 |
| 0.4100         | *****  | 0.4200           | 0.9988 |
| 0.5100         | *****  | 0.5300           | 0.9999 |
| 0.7200         | *****  | 0.7300           | 1.0002 |
| 0.9100         | *****  | 0.9400           | 1.0024 |
| 1.1100         | *****  | 1.1500           | 1.0002 |
| 1.3000         | *****  | 1.3500           | 0.9986 |
| 1.5300         | *****  | 1.5500           | 1.0008 |
| 1.7400         | *****  | 1.7500           | 1.0013 |
| 1.9400         | *****  | 1.9500           | 1.0034 |
| 2.1400         | *****  | 2.1600           | 1.0019 |
| 2.3500         | *****  | 2.3700           | 1.0024 |
| 2.5500         | *****  | 2.5800           | 1.0019 |

\*\*\*\*\* - no data

Flight 34 Test point 15

Sweep, deg = 20.0 Mach = 0.71 hp, ft = 9800. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -4.9 QBAR, lb/ft<sup>2</sup> = 514.0 Rrho = 4292000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.3217                                 | 0.1126                                  | 0.0434                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.6625 |
| 0.0500         | *****  | 0.0700           | 0.5493 |
| 0.1100         | *****  | 0.1200           | 0.5423 |
| 0.1700         | *****  | 0.1800           | 0.7535 |
| 0.2200         | *****  | 0.2100           | 0.8653 |
| 0.2700         | *****  | 0.2700           | 0.9516 |
| 0.3200         | *****  | 0.3100           | 0.9896 |
| 0.3600         | *****  | 0.3700           | 0.9961 |
| 0.4100         | *****  | 0.4200           | 0.9969 |
| 0.5100         | *****  | 0.5300           | 0.9976 |
| 0.7200         | *****  | 0.7300           | 1.0012 |
| 0.9100         | *****  | 0.9400           | 1.0025 |
| 1.1100         | *****  | 1.1500           | 0.9995 |
| 1.3000         | *****  | 1.3500           | 0.9996 |
| 1.5300         | *****  | 1.5500           | 1.0022 |
| 1.7400         | *****  | 1.7500           | 1.0029 |
| 1.9400         | *****  | 1.9500           | 1.0025 |
| 2.1400         | *****  | 2.1600           | 1.0028 |
| 2.3500         | *****  | 2.3700           | 1.0032 |
| 2.5500         | *****  | 2.5800           | 1.0033 |

\*\*\*\*\* - no data

Flight 34 Test point 16

Sweep, deg = 20.0 Mach = 0.71  $\rho$ , ft = 10000. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.3  $Q_{BAR}$ , lb/ft<sup>2</sup> = 506.3  $R_{\rho u}$  = 4261000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.3324                                 | 0.1252                                  | 0.0446                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4249 |
| 0.0500         | *****  | 0.0700           | 0.2604 |
| 0.1100         | *****  | 0.1200           | 0.6024 |
| 0.1700         | *****  | 0.1800           | 0.7504 |
| 0.2200         | *****  | 0.2100           | 0.8397 |
| 0.2700         | *****  | 0.2700           | 0.9225 |
| 0.3200         | *****  | 0.3100           | 0.9746 |
| 0.3600         | *****  | 0.3700           | 0.9968 |
| 0.4100         | *****  | 0.4200           | 1.0007 |
| 0.5100         | *****  | 0.5300           | 1.0007 |
| 0.7200         | *****  | 0.7300           | 1.0029 |
| 0.9100         | *****  | 0.9400           | 1.0039 |
| 1.1100         | *****  | 1.1500           | 1.0011 |
| 1.3000         | *****  | 1.3500           | 1.0007 |
| 1.5300         | *****  | 1.5500           | 1.0029 |
| 1.7400         | *****  | 1.7500           | 1.0026 |
| 1.9400         | *****  | 1.9500           | 1.0043 |
| 2.1400         | *****  | 2.1600           | 1.0029 |
| 2.3500         | *****  | 2.3700           | 1.0038 |
| 2.5500         | *****  | 2.5800           | 1.0021 |

\*\*\*\*\* - no data



Flight 34 Test point 17

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 337.6 Rrho = 3015000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.3200                        | 0.1113                         | 0.0387                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.2399 |
| 0.0500         | *****  | 0.0700           | 0.4378 |
| 0.1100         | *****  | 0.1200           | 0.6809 |
| 0.1700         | *****  | 0.1800           | 0.8119 |
| 0.2200         | *****  | 0.2100           | 0.8873 |
| 0.2700         | *****  | 0.2700           | 0.9582 |
| 0.3200         | *****  | 0.3100           | 0.9921 |
| 0.3600         | *****  | 0.3700           | 0.9976 |
| 0.4100         | *****  | 0.4200           | 0.9983 |
| 0.5100         | *****  | 0.5300           | 1.0008 |
| 0.7200         | *****  | 0.7300           | 1.0001 |
| 0.9100         | *****  | 0.9400           | 1.0031 |
| 1.1100         | *****  | 1.1500           | 0.9980 |
| 1.3000         | *****  | 1.3500           | 0.9978 |
| 1.5300         | *****  | 1.5500           | 1.0015 |
| 1.7400         | *****  | 1.7500           | 1.0011 |
| 1.9400         | *****  | 1.9500           | 1.0042 |
| 2.1400         | *****  | 2.1600           | 1.0020 |
| 2.3500         | *****  | 2.3700           | 1.0019 |
| 2.5500         | *****  | 2.5800           | 1.0016 |

\*\*\*\*\* - no data

Flight 34 Test point 18

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 338.1 Rrho = 3014000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.3912                        | 0.1259                         | 0.0506                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.7400 |
| 0.0500         | *****  | 0.0700           | 0.5106 |
| 0.1100         | *****  | 0.1200           | 0.3973 |
| 0.1700         | *****  | 0.1800           | 0.6686 |
| 0.2200         | *****  | 0.2100           | 0.7882 |
| 0.2700         | *****  | 0.2700           | 0.8937 |
| 0.3200         | *****  | 0.3100           | 0.9578 |
| 0.3600         | *****  | 0.3700           | 0.9898 |
| 0.4100         | *****  | 0.4200           | 0.9948 |
| 0.5100         | *****  | 0.5300           | 0.9977 |
| 0.7200         | *****  | 0.7300           | 1.0005 |
| 0.9100         | *****  | 0.9400           | 1.0022 |
| 1.1100         | *****  | 1.1500           | 0.9995 |
| 1.3000         | *****  | 1.3500           | 0.9981 |
| 1.5300         | *****  | 1.5500           | 1.0030 |
| 1.7400         | *****  | 1.7500           | 1.0016 |
| 1.9400         | *****  | 1.9500           | 1.0039 |
| 2.1400         | *****  | 2.1600           | 1.0012 |
| 2.3500         | *****  | 2.3700           | 1.0035 |
| 2.5500         | *****  | 2.5800           | 1.0042 |

\*\*\*\*\* - no data

Flight 34 Test point 19

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 332.7 Rrho = 2991000.

|                       | Boundary layer<br>height, in<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|---------------------------------------|---|-------------------------------------|-----------------------------|
| Middle station rake   |                                       |   |                                     | none                        |
| Outboard station rake | 0.3214                                | 0.1129                                  | 0.0393                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.2396 |
| 0.0500         | *****  | 0.0700           | 0.4255 |
| 0.1100         | *****  | 0.1200           | 0.6756 |
| 0.1700         | *****  | 0.1800           | 0.8068 |
| 0.2200         | *****  | 0.2100           | 0.8823 |
| 0.2700         | *****  | 0.2700           | 0.9542 |
| 0.3200         | *****  | 0.3100           | 0.9903 |
| 0.3600         | *****  | 0.3700           | 0.9984 |
| 0.4100         | *****  | 0.4200           | 0.9991 |
| 0.5100         | *****  | 0.5300           | 1.0007 |
| 0.7200         | *****  | 0.7300           | 1.0016 |
| 0.9100         | *****  | 0.9400           | 1.0039 |
| 1.1100         | *****  | 1.1500           | 0.9982 |
| 1.3000         | *****  | 1.3500           | 0.9962 |
| 1.5300         | *****  | 1.5500           | 1.0005 |
| 1.7400         | *****  | 1.7500           | 1.0012 |
| 1.9400         | *****  | 1.9500           | 1.0034 |
| 2.1400         | *****  | 2.1600           | 1.0023 |
| 2.3500         | *****  | 2.3700           | 1.0023 |
| 2.5500         | *****  | 2.5800           | 1.0020 |

\*\*\*\*\* - no data

Flight 34 Test point 20

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -5.2 QBAR, lb/ft<sup>2</sup> = 334.8 Rrho = 2994000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     | none                        |
| Outboard station rake | 0.3267                                 | 0.1133                                  | 0.0436                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.6607 |
| 0.0500         | *****  | 0.0700           | 0.3293 |
| 0.1100         | *****  | 0.1200           | 0.5578 |
| 0.1700         | *****  | 0.1800           | 0.7590 |
| 0.2200         | *****  | 0.2100           | 0.8604 |
| 0.2700         | *****  | 0.2700           | 0.9446 |
| 0.3200         | *****  | 0.3100           | 0.9844 |
| 0.3600         | *****  | 0.3700           | 0.9949 |
| 0.4100         | *****  | 0.4200           | 0.9974 |
| 0.5100         | *****  | 0.5300           | 0.9971 |
| 0.7200         | *****  | 0.7300           | 1.0015 |
| 0.9100         | *****  | 0.9400           | 1.0043 |
| 1.1100         | *****  | 1.1500           | 0.9985 |
| 1.3000         | *****  | 1.3500           | 0.9987 |
| 1.5300         | *****  | 1.5500           | 1.0048 |
| 1.7400         | *****  | 1.7500           | 1.0031 |
| 1.9400         | *****  | 1.9500           | 1.0048 |
| 2.1400         | *****  | 2.1600           | 1.0030 |
| 2.3500         | *****  | 2.3700           | 1.0033 |
| 2.5500         | *****  | 2.5800           | 1.0043 |

\*\*\*\*\* - no data

Flight 34 Test point 21

Sweep, deg = 20.0 Mach = 0.70 hp, ft = 19900, Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 338.5 Rrho = 3020000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     | none                        |
| Outboard station rake | 0.3325                                 | 0.1225                                  | 0.0446                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4111 |
| 0.0500         | *****  | 0.0700           | 0.2996 |
| 0.1100         | *****  | 0.1200           | 0.6185 |
| 0.1700         | *****  | 0.1800           | 0.7624 |
| 0.2200         | *****  | 0.2100           | 0.8422 |
| 0.2700         | *****  | 0.2700           | 0.9247 |
| 0.3200         | *****  | 0.3100           | 0.9743 |
| 0.3600         | *****  | 0.3700           | 0.9937 |
| 0.4100         | *****  | 0.4200           | 0.9978 |
| 0.5100         | *****  | 0.5300           | 0.9997 |
| 0.7200         | *****  | 0.7300           | 1.0016 |
| 0.9100         | *****  | 0.9400           | 1.0020 |
| 1.1100         | *****  | 1.1500           | 0.9986 |
| 1.3000         | *****  | 1.3500           | 0.9970 |
| 1.5300         | *****  | 1.5500           | 1.0015 |
| 1.7400         | *****  | 1.7500           | 1.0003 |
| 1.9400         | *****  | 1.9500           | 1.0040 |
| 2.1400         | *****  | 2.1600           | 1.0004 |
| 2.3500         | *****  | 2.3700           | 1.0019 |
| 2.5800         | *****  | 2.5800           | 1.0016 |

\*\*\*\*\* - no data

Flight 34 Test point 22

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 335.0 Rrho = 2999000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     | none                        |
| Outboard station rake | 0.4060                                 | 0.1126                                  | 0.0497                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4566 |
| 0.0500         | *****  | 0.0700           | 0.5749 |
| 0.1100         | *****  | 0.1200           | 0.6867 |
| 0.1700         | *****  | 0.1800           | 0.7696 |
| 0.2200         | *****  | 0.2100           | 0.8273 |
| 0.2700         | *****  | 0.2700           | 0.8943 |
| 0.3200         | *****  | 0.3100           | 0.9435 |
| 0.3600         | *****  | 0.3700           | 0.9802 |
| 0.4100         | *****  | 0.4200           | 0.9966 |
| 0.5100         | *****  | 0.5300           | 1.0039 |
| 0.7200         | *****  | 0.7300           | 1.0030 |
| 0.9100         | *****  | 0.9400           | 1.0036 |
| 1.1100         | *****  | 1.1500           | 0.9999 |
| 1.3000         | *****  | 1.3500           | 0.9969 |
| 1.5300         | *****  | 1.5500           | 1.0030 |
| 1.7400         | *****  | 1.7500           | 1.0015 |
| 1.9400         | *****  | 1.9500           | 1.0040 |
| 2.1400         | *****  | 2.1600           | 1.0016 |
| 2.3500         | *****  | 2.3700           | 1.0027 |
| 2.5500         | *****  | 2.5800           | 1.0031 |

\*\*\*\*\* - no data

Flight 34 Test point 23

Sweep, deg = 25.4 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 335.1 Rnpu = 3000000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.4140                        | 0.1152                         | 0.0511                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4605 |
| 0.0500         | *****  | 0.0700           | 0.5696 |
| 0.1100         | *****  | 0.1200           | 0.6829 |
| 0.1700         | *****  | 0.1800           | 0.7641 |
| 0.2200         | *****  | 0.2100           | 0.8199 |
| 0.2700         | *****  | 0.2700           | 0.8846 |
| 0.3200         | *****  | 0.3100           | 0.9363 |
| 0.3600         | *****  | 0.3700           | 0.9748 |
| 0.4100         | *****  | 0.4200           | 0.9970 |
| 0.5100         | *****  | 0.5300           | 1.0031 |
| 0.7200         | *****  | 0.7300           | 1.0029 |
| 0.9100         | *****  | 0.9400           | 1.0048 |
| 1.1100         | *****  | 1.1500           | 0.9998 |
| 1.3000         | *****  | 1.3500           | 0.9983 |
| 1.5300         | *****  | 1.5500           | 1.0035 |
| 1.7400         | *****  | 1.7500           | 1.0024 |
| 1.9400         | *****  | 1.9500           | 1.0051 |
| 2.1400         | *****  | 2.1600           | 1.0019 |
| 2.3500         | *****  | 2.3700           | 1.0023 |
| 2.5500         | *****  | 2.5800           | 1.0040 |

\*\*\*\*\* - no data

Flight 34 Test point 24

Sweep, deg = 25.1 Mach = 0.70 hp, ft = 19800. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 340.1 Rnpu = 3u33000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.3481                        | 0.1071                         | 0.0454                     | none                |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.4347             |
| 0.0500         | *****              | 0.0700           | 0.5695             |
| 0.1100         | *****              | 0.1200           | 0.6955             |
| 0.1700         | *****              | 0.1800           | 0.7853             |
| 0.2200         | *****              | 0.2100           | 0.8495             |
| 0.2700         | *****              | 0.2700           | 0.9169             |
| 0.3200         | *****              | 0.3100           | 0.9652             |
| 0.3600         | *****              | 0.3700           | 0.9914             |
| 0.4100         | *****              | 0.4200           | 0.9996             |
| 0.5100         | *****              | 0.5300           | 1.0011             |
| 0.7200         | *****              | 0.7300           | 1.0011             |
| 0.9100         | *****              | 0.9400           | 1.0033             |
| 1.1100         | *****              | 1.1500           | 0.9988             |
| 1.3000         | *****              | 1.3500           | 0.9975             |
| 1.5300         | *****              | 1.5500           | 1.0006             |
| 1.7400         | *****              | 1.7500           | 1.0009             |
| 1.9400         | *****              | 1.9500           | 1.0029             |
| 2.1400         | *****              | 2.1600           | 1.0003             |
| 2.3500         | *****              | 2.3700           | 1.0012             |
| 2.5500         | *****              | 2.5800           | 1.0012             |

\*\*\*\*\* = no data



Flight 34 Test point 25

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 20000. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 335.9 Rrho = 3001000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5768                        | 0.1415                         | 0.0705                     | none                |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.5662             |
| 0.0500         | *****              | 0.0700           | 0.6115             |
| 0.1100         | *****              | 0.1200           | 0.6731             |
| 0.1700         | *****              | 0.1800           | 0.7231             |
| 0.2200         | *****              | 0.2100           | 0.7573             |
| 0.2700         | *****              | 0.2700           | 0.8066             |
| 0.3200         | *****              | 0.3100           | 0.8476             |
| 0.3600         | *****              | 0.3700           | 0.8867             |
| 0.4100         | *****              | 0.4200           | 0.9209             |
| 0.5100         | *****              | 0.5300           | 0.9782             |
| 0.7200         | *****              | 0.7300           | 1.0031             |
| 0.9100         | *****              | 0.9400           | 1.0052             |
| 1.1100         | *****              | 1.1500           | 0.9990             |
| 1.3000         | *****              | 1.3500           | 0.9980             |
| 1.5300         | *****              | 1.5500           | 1.0027             |
| 1.7400         | *****              | 1.7500           | 1.0016             |
| 1.9400         | *****              | 1.9500           | 1.0044             |
| 2.1400         | *****              | 2.1600           | 1.0013             |
| 2.3500         | *****              | 2.3700           | 1.0032             |
| 2.5500         | *****              | 2.5800           | 1.0032             |

\*\*\*\*\* - no data

Flight 34 Test point 26

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 19900. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 335.8 Rrho = 3004000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5737                        | 0.1376                         | 0.0689                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5746 |
| 0.0500         | *****  | 0.0700           | 0.6170 |
| 0.1100         | *****  | 0.1200           | 0.6796 |
| 0.1700         | *****  | 0.1800           | 0.7285 |
| 0.2200         | *****  | 0.2100           | 0.7660 |
| 0.2700         | *****  | 0.2700           | 0.8134 |
| 0.3200         | *****  | 0.3100           | 0.8552 |
| 0.3600         | *****  | 0.3700           | 0.8919 |
| 0.4100         | *****  | 0.4200           | 0.9261 |
| 0.5100         | *****  | 0.5300           | 0.9807 |
| 0.7200         | *****  | 0.7300           | 1.0026 |
| 0.9100         | *****  | 0.9400           | 1.0036 |
| 1.1100         | *****  | 1.1500           | 0.9996 |
| 1.3000         | *****  | 1.3500           | 0.9974 |
| 1.5300         | *****  | 1.5500           | 1.0037 |
| 1.7400         | *****  | 1.7500           | 1.0022 |
| 1.9400         | *****  | 1.9500           | 1.0031 |
| 2.1400         | *****  | 2.1600           | 1.0018 |
| 2.3500         | *****  | 2.3700           | 1.0017 |
| 2.5500         | *****  | 2.5800           | 1.0037 |

\*\*\*\*\* - no data

Flight 34 Test point 27

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 19900. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 339.2 Rrho = 3026000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     | none                        |
| Outboard station rake | 0.5925                                 | 0.1484                                  | 0.0736                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5544 |
| 0.0500         | *****  | 0.0700           | 0.6029 |
| 0.1100         | *****  | 0.1200           | 0.6609 |
| 0.1700         | *****  | 0.1800           | 0.7111 |
| 0.2200         | *****  | 0.2100           | 0.7478 |
| 0.2700         | *****  | 0.2700           | 0.7970 |
| 0.3200         | *****  | 0.3100           | 0.8395 |
| 0.3600         | *****  | 0.3700           | 0.8753 |
| 0.4100         | *****  | 0.4200           | 0.9097 |
| 0.5100         | *****  | 0.5300           | 0.9710 |
| 0.7200         | *****  | 0.7300           | 1.0040 |
| 0.9100         | *****  | 0.9400           | 1.0048 |
| 1.1100         | *****  | 1.1500           | 1.0007 |
| 1.3000         | *****  | 1.3500           | 0.9984 |
| 1.5300         | *****  | 1.5500           | 1.0034 |
| 1.7400         | *****  | 1.7500           | 1.0035 |
| 1.9400         | *****  | 1.9500           | 1.0050 |
| 2.1400         | *****  | 2.1600           | 1.0029 |
| 2.3500         | *****  | 2.3700           | 1.0026 |
| 2.5500         | *****  | 2.5800           | 1.0037 |

\*\*\*\*\* - no data

Flight 34 Test point 28

Sweep, deg = 34.9 Mach = 0.71 hp, ft = 20000. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 337.7 Rrho = 3014000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     | none                        |
| Outboard station rake | 0.5801                                 | 0.1362                                  | 0.0690                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5983 |
| 0.0500         | *****  | 0.0700           | 0.6270 |
| 0.1100         | *****  | 0.1200           | 0.6883 |
| 0.1700         | *****  | 0.1800           | 0.7340 |
| 0.2200         | *****  | 0.2100           | 0.7669 |
| 0.2700         | *****  | 0.2700           | 0.8158 |
| 0.3200         | *****  | 0.3100           | 0.8564 |
| 0.3600         | *****  | 0.3700           | 0.8883 |
| 0.4100         | *****  | 0.4200           | 0.9231 |
| 0.5100         | *****  | 0.5300           | 0.9779 |
| 0.7200         | *****  | 0.7300           | 1.0033 |
| 0.9100         | *****  | 0.9400           | 1.0039 |
| 1.1100         | *****  | 1.1500           | 0.9998 |
| 1.3000         | *****  | 1.3500           | 0.9988 |
| 1.5300         | *****  | 1.5500           | 1.0025 |
| 1.7400         | *****  | 1.7500           | 1.0012 |
| 1.9400         | *****  | 1.9500           | 1.0051 |
| 2.1400         | *****  | 2.1600           | 1.0009 |
| 2.3500         | *****  | 2.3700           | 1.0030 |
| 2.5500         | *****  | 2.5800           | 1.0036 |

\*\*\*\*\* - no data

Flight 34 Test point 29

Sweep, deg = 34.9 Mach = 0.70 hp, ft = 20100. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 334.5 R<sub>rho</sub> = 2995000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5720                        | 0.1310                         | 0.0667                     | none                |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.6009             |
| 0.0500         | *****              | 0.0700           | 0.6348             |
| 0.1100         | *****              | 0.1200           | 0.6937             |
| 0.1700         | *****              | 0.1800           | 0.7430             |
| 0.2200         | *****              | 0.2100           | 0.7784             |
| 0.2700         | *****              | 0.2700           | 0.8247             |
| 0.3200         | *****              | 0.3100           | 0.8637             |
| 0.3600         | *****              | 0.3700           | 0.8977             |
| 0.4100         | *****              | 0.4200           | 0.9313             |
| 0.5100         | *****              | 0.5300           | 0.9826             |
| 0.7200         | *****              | 0.7300           | 1.0034             |
| 0.9100         | *****              | 0.9400           | 1.0045             |
| 1.1100         | *****              | 1.1500           | 1.0002             |
| 1.3000         | *****              | 1.3500           | 0.9973             |
| 1.5300         | *****              | 1.5500           | 1.0018             |
| 1.7400         | *****              | 1.7500           | 1.0015             |
| 1.9400         | *****              | 1.9500           | 1.0032             |
| 2.1400         | *****              | 2.1600           | 1.0005             |
| 2.3500         | *****              | 2.3700           | 1.0015             |
| 2.5500         | *****              | 2.5800           | 1.0035             |

\*\*\*\*\* - no data

Flight 34 Test point 30

Sweep, deg = 34.9 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 382.9 Rrho = 3225000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   | *****                                  | *****                                   | *****                               | none                        |
| Outboard station rake | 0.5793                                 | 0.1434                                  | 0.0706                              | none                        |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.5802             |
| 0.0500         | *****              | 0.0700           | 0.6090             |
| 0.1100         | *****              | 0.1200           | 0.6695             |
| 0.1700         | *****              | 0.1800           | 0.7206             |
| 0.2200         | *****              | 0.2100           | 0.7573             |
| 0.2700         | *****              | 0.2700           | 0.8051             |
| 0.3200         | *****              | 0.3100           | 0.8474             |
| 0.3600         | *****              | 0.3700           | 0.8844             |
| 0.4100         | *****              | 0.4200           | 0.9193             |
| 0.5100         | *****              | 0.5300           | 0.9770             |
| 0.7200         | *****              | 0.7300           | 1.0037             |
| 0.9100         | *****              | 0.9400           | 1.0041             |
| 1.1100         | *****              | 1.1500           | 1.0009             |
| 1.3000         | *****              | 1.3500           | 0.9986             |
| 1.5300         | *****              | 1.5500           | 1.0027             |
| 1.7400         | *****              | 1.7500           | 1.0029             |
| 1.9400         | *****              | 1.9500           | 1.0036             |
| 2.1400         | *****              | 2.1600           | 1.0014             |
| 2.3500         | *****              | 2.3700           | 1.0025             |
| 2.5500         | *****              | 2.5800           | 1.0025             |

\*\*\*\*\* - no data

Flight 34 Test point 31

Sweep, deg = 34.9 Mach = 0.75 hp, ft = 20100. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 384.2 Rnpu = 3235000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5738                                 | 0.1423                                  | 0.0701                              | none                        |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.5792             |
| 0.0500         | *****              | 0.0700           | 0.6118             |
| 0.1100         | *****              | 0.1200           | 0.6701             |
| 0.1700         | *****              | 0.1800           | 0.7199             |
| 0.2200         | *****              | 0.2100           | 0.7586             |
| 0.2700         | *****              | 0.2700           | 0.8057             |
| 0.3200         | *****              | 0.3100           | 0.8488             |
| 0.3600         | *****              | 0.3700           | 0.8857             |
| 0.4100         | *****              | 0.4200           | 0.9214             |
| 0.5100         | *****              | 0.5300           | 0.9794             |
| 0.7200         | *****              | 0.7300           | 1.0028             |
| 0.9100         | *****              | 0.9400           | 1.0040             |
| 1.1100         | *****              | 1.1500           | 1.0000             |
| 1.3000         | *****              | 1.3500           | 0.9987             |
| 1.5300         | *****              | 1.5500           | 1.0021             |
| 1.7400         | *****              | 1.7500           | 1.0023             |
| 1.9400         | *****              | 1.9500           | 1.0033             |
| 2.1400         | *****              | 2.1600           | 1.0018             |
| 2.3500         | *****              | 2.3700           | 1.0039             |
| 2.5500         | *****              | 2.5800           | 1.0017             |

\*\*\*\*\* - no data

Flight 34 Test point 32

Sweep, deg = 34.9 Mach = 0.76 hp, ft = 20100. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 385.9 Rrho = 3242000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5920                        | 0.1531                         | 0.0745                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5626 |
| 0.0500         | *****  | 0.0700           | 0.5965 |
| 0.1100         | *****  | 0.1200           | 0.6541 |
| 0.1700         | *****  | 0.1800           | 0.7052 |
| 0.2200         | *****  | 0.2100           | 0.7422 |
| 0.2700         | *****  | 0.2700           | 0.7878 |
| 0.3200         | *****  | 0.3100           | 0.8296 |
| 0.3600         | *****  | 0.3700           | 0.8691 |
| 0.4100         | *****  | 0.4200           | 0.9064 |
| 0.5100         | *****  | 0.5300           | 0.9688 |
| 0.7200         | *****  | 0.7300           | 1.0035 |
| 0.9100         | *****  | 0.9400           | 1.0052 |
| 1.1100         | *****  | 1.1500           | 1.0012 |
| 1.3000         | *****  | 1.3500           | 0.9988 |
| 1.5300         | *****  | 1.5500           | 1.0038 |
| 1.7400         | *****  | 1.7500           | 1.0027 |
| 1.9400         | *****  | 1.9500           | 1.0050 |
| 2.1400         | *****  | 2.1600           | 1.0027 |
| 2.3500         | *****  | 2.3700           | 1.0047 |
| 2.5500         | *****  | 2.5800           | 1.0035 |

\*\*\*\*\* -- no data



Flight 34 Test point 33

Sweep, deg = 30.2 Mach = 0.76 hp, ft = 20000. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 387.4 Rrho = 3253000.

|                       |                               |                                |                            |                     |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5745                        | 0.1549                         | 0.0737                     | none                |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.5193             |
| 0.0500         | *****              | 0.0700           | 0.5725             |
| 0.1100         | *****              | 0.1200           | 0.6379             |
| 0.1700         | *****              | 0.1800           | 0.6922             |
| 0.2200         | *****              | 0.2100           | 0.7338             |
| 0.2700         | *****              | 0.2700           | 0.7869             |
| 0.3200         | *****              | 0.3100           | 0.8330             |
| 0.3600         | *****              | 0.3700           | 0.8746             |
| 0.4100         | *****              | 0.4200           | 0.9129             |
| 0.5100         | *****              | 0.5300           | 0.9768             |
| 0.7200         | *****              | 0.7300           | 1.0033             |
| 0.9100         | *****              | 0.9400           | 1.0044             |
| 1.1100         | *****              | 1.1500           | 1.0012             |
| 1.3000         | *****              | 1.3500           | 0.9990             |
| 1.5300         | *****              | 1.5500           | 1.0029             |
| 1.7400         | *****              | 1.7500           | 1.0025             |
| 1.9400         | *****              | 1.9500           | 1.0034             |
| 2.1400         | *****              | 2.1600           | 1.0002             |
| 2.3500         | *****              | 2.3700           | 1.0038             |
| 2.5500         | *****              | 2.5800           | 1.0023             |

\*\*\*\*\* - no data

Flight 34 Test point 34

Sweep, deg = 30.2 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 384.1 Rrho = 3235000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   | *****                                  | *****                                   | *****                               | none                        |
| Outboard station rake | 0.5965                                 | 0.1624                                  | 0.0773                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5135 |
| 0.0500         | *****  | 0.0700           | 0.5666 |
| 0.1100         | *****  | 0.1200           | 0.6329 |
| 0.1700         | *****  | 0.1800           | 0.6830 |
| 0.2200         | *****  | 0.2100           | 0.7233 |
| 0.2700         | *****  | 0.2700           | 0.7729 |
| 0.3200         | *****  | 0.3100           | 0.8183 |
| 0.3600         | *****  | 0.3700           | 0.8618 |
| 0.4100         | *****  | 0.4200           | 0.9004 |
| 0.5100         | *****  | 0.5300           | 0.9653 |
| 0.7200         | *****  | 0.7300           | 1.0008 |
| 0.9100         | *****  | 0.9400           | 1.0018 |
| 1.1100         | *****  | 1.1500           | 0.9980 |
| 1.3000         | *****  | 1.3500           | 0.9967 |
| 1.5300         | *****  | 1.5500           | 1.0003 |
| 1.7400         | *****  | 1.7500           | 1.0000 |
| 1.9400         | *****  | 1.9500           | 1.0015 |
| 2.1400         | *****  | 2.1600           | 0.9998 |
| 2.3500         | *****  | 2.3700           | 1.0000 |
| 2.5500         | *****  | 2.5800           | 1.0012 |

\*\*\*\*\* - no data

Flight 34 Test point 35

Sweep, deg = 25.2 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 381.7 Rnpu = 3226000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   | *****                                  | *****                                   | *****                               | none                        |
| Outboard station rake | 0.5447                                 | 0.1618                                  | 0.0695                              | none                        |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.3294             |
| 0.0500         | *****              | 0.0700           | 0.4728             |
| 0.1100         | *****              | 0.1200           | 0.5955             |
| 0.1700         | *****              | 0.1800           | 0.6734             |
| 0.2200         | *****              | 0.2100           | 0.7271             |
| 0.2700         | *****              | 0.2700           | 0.7904             |
| 0.3200         | *****              | 0.3100           | 0.8437             |
| 0.3600         | *****              | 0.3700           | 0.8939             |
| 0.4100         | *****              | 0.4200           | 0.9365             |
| 0.5100         | *****              | 0.5200           | 0.9931             |
| 0.7200         | *****              | 0.7300           | 1.0012             |
| 0.9100         | *****              | 0.9400           | 1.0023             |
| 1.1100         | *****              | 1.1500           | 0.9990             |
| 1.3000         | *****              | 1.3500           | 0.9980             |
| 1.5300         | *****              | 1.5500           | 1.0005             |
| 1.7400         | *****              | 1.7500           | 1.0017             |
| 1.9400         | *****              | 1.9500           | 1.0014             |
| 2.1400         | *****              | 2.1600           | 0.9989             |
| 2.3500         | *****              | 2.3700           | 1.0019             |
| 2.5500         | *****              | 2.5800           | 1.0022             |

\*\*\*\*\* - no data

Flight 34 Test point 36

Sweep, deg = 25.0 Mach = 0.75 hp, ft = 20100. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 382.7 Rnpu = 3221000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5398                        | 0.1625                         | 0.0678                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.2900 |
| 0.0500         | *****  | 0.0700           | 0.4551 |
| 0.1100         | *****  | 0.1200           | 0.5863 |
| 0.1700         | *****  | 0.1800           | 0.6742 |
| 0.2200         | *****  | 0.2100           | 0.7255 |
| 0.2700         | *****  | 0.2700           | 0.7912 |
| 0.3200         | *****  | 0.3100           | 0.8485 |
| 0.3600         | *****  | 0.3700           | 0.8999 |
| 0.4100         | *****  | 0.4200           | 0.9449 |
| 0.5100         | *****  | 0.5300           | 0.9959 |
| 0.7200         | *****  | 0.7300           | 1.0008 |
| 0.9100         | *****  | 0.9400           | 1.0022 |
| 1.1100         | *****  | 1.1500           | 0.9984 |
| 1.3000         | *****  | 1.3500           | 0.9969 |
| 1.5300         | *****  | 1.5500           | 1.0014 |
| 1.7400         | *****  | 1.7500           | 1.0005 |
| 1.9400         | *****  | 1.9500           | 1.0021 |
| 2.1400         | *****  | 2.1600           | 1.0007 |
| 2.3500         | *****  | 2.3700           | 0.9998 |
| 2.5500         | *****  | 2.5800           | 1.0013 |

\*\*\*\*\* - no data

Flight 34 Test point 37

Sweep, deg = 24.9 Mach = 0.75 hp, ft = 20300. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 382.0 Rnpu = 3216000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | *****                      | *****                       | *****                   | none             |
| Outboard station rake | 0.4639                     | 0.1558                      | 0.0615                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.2477 |
| 0.0500         | *****  | 0.0700           | 0.4405 |
| 0.1100         | *****  | 0.1200           | 0.5909 |
| 0.1700         | *****  | 0.1800           | 0.6817 |
| 0.2200         | *****  | 0.2100           | 0.7393 |
| 0.2700         | *****  | 0.2700           | 0.8118 |
| 0.3200         | *****  | 0.3100           | 0.8708 |
| 0.3600         | *****  | 0.3700           | 0.9241 |
| 0.4100         | *****  | 0.4200           | 0.9659 |
| 0.5100         | *****  | 0.5300           | 1.0025 |
| 0.7200         | *****  | 0.7300           | 1.0048 |
| 0.9100         | *****  | 0.9400           | 1.0066 |
| 1.1100         | *****  | 1.1500           | 1.0022 |
| 1.3000         | *****  | 1.3500           | 0.9992 |
| 1.5300         | *****  | 1.5500           | 1.0036 |
| 1.7400         | *****  | 1.7500           | 1.0033 |
| 1.9400         | *****  | 1.9500           | 1.0035 |
| 2.1400         | *****  | 2.1600           | 1.0021 |
| 2.3500         | *****  | 2.3700           | 1.0031 |
| 2.5500         | *****  | 2.5800           | 1.0032 |

\*\*\*\*\* - no data

Flight 34 Test point 38

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 20100. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 383.4 Rrho = 3227000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.3315                        | 0.1199                         | 0.0430                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3177 |
| 0.0500         | *****  | 0.0700           | 0.3691 |
| 0.1100         | *****  | 0.1200           | 0.6440 |
| 0.1700         | *****  | 0.1800           | 0.7775 |
| 0.2200         | *****  | 0.2100           | 0.8570 |
| 0.2700         | *****  | 0.2700           | 0.9311 |
| 0.3200         | *****  | 0.3100           | 0.9786 |
| 0.3800         | *****  | 0.3700           | 0.9966 |
| 0.4100         | *****  | 0.4200           | 0.9998 |
| 0.5100         | *****  | 0.5300           | 1.0011 |
| 0.7200         | *****  | 0.7300           | 1.0022 |
| 0.9100         | *****  | 0.9400           | 1.0039 |
| 1.1100         | *****  | 1.1500           | 0.9995 |
| 1.3000         | *****  | 1.3500           | 0.9995 |
| 1.5300         | *****  | 1.5500           | 1.0031 |
| 1.7400         | *****  | 1.7500           | 1.0023 |
| 1.9400         | *****  | 1.9500           | 1.0038 |
| 2.1400         | *****  | 2.1600           | 1.0025 |
| 2.3500         | *****  | 2.3700           | 1.0041 |
| 2.5500         | *****  | 2.5800           | 1.0031 |

\*\*\*\*\* - no data

Flight 34 Test point 39

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 20000. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 381.5 Rnpu = 3221000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.3372                        | 0.1184                         | 0.0458                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.6558 |
| 0.0500         | *****  | 0.0700           | 0.3273 |
| 0.1100         | *****  | 0.1200           | 0.5475 |
| 0.1700         | *****  | 0.1800           | 0.7455 |
| 0.2200         | *****  | 0.2100           | 0.8411 |
| 0.2700         | *****  | 0.2700           | 0.9224 |
| 0.3200         | *****  | 0.3100           | 0.9699 |
| 0.3600         | *****  | 0.3700           | 0.9910 |
| 0.4100         | *****  | 0.4200           | 0.9964 |
| 0.5100         | *****  | 0.5300           | 0.9980 |
| 0.7200         | *****  | 0.7300           | 1.0007 |
| 0.9100         | *****  | 0.9400           | 1.0024 |
| 1.1100         | *****  | 1.1500           | 0.9993 |
| 1.3000         | *****  | 1.3500           | 0.9975 |
| 1.5300         | *****  | 1.5500           | 1.0015 |
| 1.7400         | *****  | 1.7500           | 1.0025 |
| 1.9400         | *****  | 1.9500           | 1.0024 |
| 2.1400         | *****  | 2.1600           | 1.0023 |
| 2.3500         | *****  | 2.3700           | 1.0033 |
| 2.5500         | *****  | 2.5800           | 1.0029 |

\*\*\*\*\* - no data

Flight 34 Test point 40

Sweep, deg = 20.0 Mach = 0.76 hp, ft = 20100. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 386.2 Rnpu = 3246000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.3875                        | 0.1105                         | 0.0420                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.2538 |
| 0.0500         | *****  | 0.0700           | 0.5398 |
| 0.1100         | *****  | 0.1200           | 0.7192 |
| 0.1700         | *****  | 0.1800           | 0.8173 |
| 0.2200         | *****  | 0.2100           | 0.8704 |
| 0.2700         | *****  | 0.2700           | 0.9248 |
| 0.3200         | *****  | 0.3100           | 0.9626 |
| 0.3600         | *****  | 0.3700           | 0.9853 |
| 0.4100         | *****  | 0.4200           | 0.9967 |
| 0.5100         | *****  | 0.5300           | 1.0008 |
| 0.7200         | *****  | 0.7300           | 1.0014 |
| 0.9100         | *****  | 0.9400           | 1.0029 |
| 1.1100         | *****  | 1.1500           | 1.0005 |
| 1.3000         | *****  | 1.3500           | 0.9970 |
| 1.5300         | *****  | 1.5500           | 1.0028 |
| 1.7400         | *****  | 1.7500           | 1.0019 |
| 1.9400         | *****  | 1.9500           | 1.0028 |
| 2.1400         | *****  | 2.1600           | 1.0024 |
| 2.3500         | *****  | 2.3700           | 1.0027 |
| 2.5500         | *****  | 2.5800           | 1.0029 |

\*\*\*\*\* - no data



Flight 34 Test point 41

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 20100. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 382.1 Rnpu = 3219000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.4333                        | 0.1236                         | 0.0460                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5535 |
| 0.0500         | *****  | 0.0700           | 0.2064 |
| 0.1100         | *****  | 0.1200           | 0.6389 |
| 0.1700         | *****  | 0.1800           | 0.7867 |
| 0.2200         | *****  | 0.2100           | 0.8518 |
| 0.2700         | *****  | 0.2700           | 0.9091 |
| 0.3200         | *****  | 0.3100           | 0.9482 |
| 0.3600         | *****  | 0.3700           | 0.9736 |
| 0.4100         | *****  | 0.4200           | 0.9860 |
| 0.5100         | *****  | 0.5300           | 0.9968 |
| 0.7200         | *****  | 0.7300           | 0.9999 |
| 0.9100         | *****  | 0.9400           | 1.0031 |
| 1.1100         | *****  | 1.1500           | 0.9984 |
| 1.3000         | *****  | 1.3500           | 0.9963 |
| 1.5300         | *****  | 1.5500           | 1.0020 |
| 1.7400         | *****  | 1.7500           | 1.0028 |
| 1.9400         | *****  | 1.9500           | 1.0038 |
| 2.1400         | *****  | 2.1600           | 1.0038 |
| 2.3500         | *****  | 2.3700           | 1.0040 |
| 2.5500         | *****  | 2.5800           | 1.0030 |

\*\*\*\*\* - no data

Flight 34 Test point 42

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 20200. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 383.0 Rrho = 3220000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     | none                        |
| Outboard station rake | 0.4878                                 | 0.1166                                  | 0.0522                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4075 |
| 0.0500         | *****  | 0.0700           | 0.5929 |
| 0.1100         | *****  | 0.1200           | 0.7234 |
| 0.1700         | *****  | 0.1800           | 0.7993 |
| 0.2200         | *****  | 0.2100           | 0.8359 |
| 0.2700         | *****  | 0.2700           | 0.8818 |
| 0.3200         | *****  | 0.3100           | 0.9203 |
| 0.3600         | *****  | 0.3700           | 0.9509 |
| 0.4100         | *****  | 0.4200           | 0.9729 |
| 0.5100         | *****  | 0.5300           | 0.9984 |
| 0.7200         | *****  | 0.7300           | 1.0046 |
| 0.9100         | *****  | 0.9400           | 1.0066 |
| 1.1100         | *****  | 1.1500           | 1.0004 |
| 1.3000         | *****  | 1.3500           | 0.9988 |
| 1.5300         | *****  | 1.5500           | 1.0028 |
| 1.7400         | *****  | 1.7500           | 1.0018 |
| 1.9400         | *****  | 1.9500           | 1.0049 |
| 2.1400         | *****  | 2.1600           | 1.0026 |
| 2.3500         | *****  | 2.3700           | 1.0034 |
| 2.5500         | *****  | 2.5800           | 1.0029 |

\*\*\*\*\* - no data

Flight 34 Test point 43

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = -0.2  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 439.0 Rrho = 3481000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     | none                        |
| Outboard station rake | 0.7042                                 | 0.2379                                  | 0.0799                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5676 |
| 0.0500         | *****  | 0.0700           | 0.5181 |
| 0.1100         | *****  | 0.1200           | 0.3093 |
| 0.1700         | *****  | 0.1800           | 0.2478 |
| 0.2200         | *****  | 0.2100           | 0.4422 |
| 0.2700         | *****  | 0.2700           | 0.5926 |
| 0.3200         | *****  | 0.3100           | 0.7014 |
| 0.3600         | *****  | 0.3700           | 0.8018 |
| 0.4100         | *****  | 0.4200           | 0.8821 |
| 0.5100         | *****  | 0.5300           | 0.9857 |
| 0.7200         | *****  | 0.7300           | 1.0018 |
| 0.9100         | *****  | 0.9400           | 1.0025 |
| 1.1100         | *****  | 1.1500           | 0.9998 |
| 1.3000         | *****  | 1.3500           | 0.9989 |
| 1.5300         | *****  | 1.5500           | 1.0009 |
| 1.7400         | *****  | 1.7500           | 1.0000 |
| 1.9400         | *****  | 1.9500           | 1.0019 |
| 2.1400         | *****  | 2.1600           | 0.9990 |
| 2.3500         | *****  | 2.3700           | 0.9983 |
| 2.5500         | *****  | 2.5800           | 0.9968 |

\*\*\*\*\* - no data

Flight 34 Test point 44

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 20000. Angle of attack, deg = -0.2  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 437.6 Rrho = 3474000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     | none                        |
| Outboard station rake | 0.5510                                 | 0.2068                                  | 0.0713                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.6393 |
| 0.0500         | *****  | 0.0700           | 0.6096 |
| 0.1100         | *****  | 0.1200           | 0.3733 |
| 0.1700         | *****  | 0.1800           | 0.2487 |
| 0.2200         | *****  | 0.2100           | 0.4907 |
| 0.2700         | *****  | 0.2700           | 0.6633 |
| 0.3200         | *****  | 0.3100           | 0.7815 |
| 0.3600         | *****  | 0.3700           | 0.8761 |
| 0.4100         | *****  | 0.4200           | 0.9351 |
| 0.5100         | *****  | 0.5300           | 0.9904 |
| 0.7200         | *****  | 0.7300           | 1.0026 |
| 0.9100         | *****  | 0.9400           | 1.0035 |
| 1.1100         | *****  | 1.1500           | 1.0000 |
| 1.3000         | *****  | 1.3500           | 1.0004 |
| 1.5300         | *****  | 1.5500           | 1.0023 |
| 1.7400         | *****  | 1.7500           | 1.0009 |
| 1.9400         | *****  | 1.9500           | 1.0002 |
| 2.1400         | *****  | 2.1600           | 1.0007 |
| 2.3500         | *****  | 2.3700           | 0.9994 |
| 2.5500         | *****  | 2.5800           | 0.9996 |

\*\*\*\*\* - no data

Flight 34 Test point 45

Sweep, deg = 20.0 Mach = 0.81 hp, ft = 20200. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 438.7 Rrho = 3473000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5287                        | 0.2222                         | 0.0714                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5565 |
| 0.0500         | *****  | 0.0700           | 0.5048 |
| 0.1100         | *****  | 0.1200           | 0.2837 |
| 0.1700         | *****  | 0.1800           | 0.2827 |
| 0.2200         | *****  | 0.2100           | 0.4718 |
| 0.2700         | *****  | 0.2700           | 0.6279 |
| 0.3200         | *****  | 0.3100           | 0.7482 |
| 0.3600         | *****  | 0.3700           | 0.8589 |
| 0.4100         | *****  | 0.4200           | 0.9363 |
| 0.5100         | *****  | 0.5300           | 1.0007 |
| 0.7200         | *****  | 0.7300           | 1.0043 |
| 0.9100         | *****  | 0.9400           | 1.0053 |
| 1.1100         | *****  | 1.1500           | 1.0018 |
| 1.3000         | *****  | 1.3500           | 1.0006 |
| 1.5300         | *****  | 1.5500           | 1.0013 |
| 1.7400         | *****  | 1.7500           | 1.0021 |
| 1.9400         | *****  | 1.9500           | 0.9993 |
| 2.1400         | *****  | 2.1600           | 0.9953 |
| 2.3500         | *****  | 2.3700           | 0.9952 |
| 2.5500         | *****  | 2.5800           | 0.9941 |

\*\*\*\*\* - no data

Flight 34 Test point 46

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 19800, Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -4.4 QBAR, lb/ft<sup>2</sup> = 442.9 Rrho = 3501000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     | none                        |
| Outboard station rake | 0.5512                                 | 0.2158                                  | 0.0714                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.6020 |
| 0.0500         | *****  | 0.0700           | 0.5786 |
| 0.1100         | *****  | 0.1200           | 0.3450 |
| 0.1700         | *****  | 0.1800           | 0.2386 |
| 0.2200         | *****  | 0.2100           | 0.4756 |
| 0.2700         | *****  | 0.2700           | 0.6542 |
| 0.3200         | *****  | 0.3100           | 0.7723 |
| 0.3600         | *****  | 0.3700           | 0.8686 |
| 0.4100         | *****  | 0.4200           | 0.9293 |
| 0.5100         | *****  | 0.5300           | 0.9895 |
| 0.7200         | *****  | 0.7300           | 1.0029 |
| 0.9100         | *****  | 0.9400           | 1.0035 |
| 1.1100         | *****  | 1.1500           | 1.0011 |
| 1.3000         | *****  | 1.3500           | 1.0006 |
| 1.5300         | *****  | 1.5500           | 1.0029 |
| 1.7400         | *****  | 1.7500           | 1.0024 |
| 1.9400         | *****  | 1.9500           | 1.0013 |
| 2.1400         | *****  | 2.1600           | 0.9983 |
| 2.3500         | *****  | 2.3700           | 0.9996 |
| 2.5500         | *****  | 2.5800           | 0.9980 |

\*\*\*\*\* - no data

Flight 34 Test point 47

Sweep, deg = 24.9 Mach = 0.81 hp, ft = 20000. Angle of attack, deg = -0.3  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 441.4 Rnpu = 3493000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     | none                        |
| Outboard station rake | 0.7250                                 | 0.2313                                  | 0.0800                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4083 |
| 0.0500         | *****  | 0.0700           | 0.2941 |
| 0.1100         | *****  | 0.1200           | 0.2988 |
| 0.1700         | *****  | 0.1800           | 0.4738 |
| 0.2200         | *****  | 0.2100           | 0.5702 |
| 0.2700         | *****  | 0.2700           | 0.6723 |
| 0.3200         | *****  | 0.3100           | 0.7536 |
| 0.3600         | *****  | 0.3700           | 0.8271 |
| 0.4100         | *****  | 0.4200           | 0.8861 |
| 0.5100         | *****  | 0.5300           | 0.9724 |
| 0.7200         | *****  | 0.7300           | 1.0006 |
| 0.9100         | *****  | 0.9400           | 1.0021 |
| 1.1100         | *****  | 1.1500           | 0.9995 |
| 1.3000         | *****  | 1.3500           | 0.9979 |
| 1.5300         | *****  | 1.5500           | 1.0011 |
| 1.7400         | *****  | 1.7500           | 1.0001 |
| 1.9400         | *****  | 1.9500           | 1.0013 |
| 2.1400         | *****  | 2.1600           | 1.0000 |
| 2.3500         | *****  | 2.3700           | 0.9995 |
| 2.5500         | *****  | 2.5800           | 0.9979 |

\*\*\*\*\* - no data

Flight 34 Test point 48

Sweep, deg = 24.9 Mach = 0.81 hp, ft = 20100. Angle of attack, deg = 0.2  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 438.5 Rnpu = 3479000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     | none                        |
| Outboard station rake | 0.7235                                 | 0.2373                                  | 0.0804                              | none                        |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.4346             |
| 0.0500         | *****              | 0.0700           | 0.3383             |
| 0.1100         | *****              | 0.1200           | 0.2518             |
| 0.1700         | *****              | 0.1800           | 0.4487             |
| 0.2200         | *****              | 0.2100           | 0.5570             |
| 0.2700         | *****              | 0.2700           | 0.6613             |
| 0.3200         | *****              | 0.3100           | 0.7451             |
| 0.3600         | *****              | 0.3700           | 0.8190             |
| 0.4100         | *****              | 0.4200           | 0.8793             |
| 0.5100         | *****              | 0.5300           | 0.9690             |
| 0.7200         | *****              | 0.7300           | 1.0009             |
| 0.9100         | *****              | 0.9400           | 1.0022             |
| 1.1100         | *****              | 1.1500           | 1.0003             |
| 1.3000         | *****              | 1.3500           | 0.9991             |
| 1.5300         | *****              | 1.5500           | 1.0014             |
| 1.7400         | *****              | 1.7500           | 1.0012             |
| 1.9400         | *****              | 1.9500           | 1.0012             |
| 2.1400         | *****              | 2.1600           | 0.9999             |
| 2.3500         | *****              | 2.3700           | 0.9975             |
| 2.5500         | *****              | 2.5800           | 0.9963             |

\*\*\*\*\* - no data



Flight 34 Test point 49

Sweep, deg = 24.9 Mach = 0.80 hp, ft = 20100. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.6 QBAR, lb/ft<sup>2</sup> = 433.9 Rrho = 3458000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     | none                        |
| Outboard station rake | 0.7116                                 | 0.2609                                  | 0.0801                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3725 |
| 0.0500         | *****  | 0.0700           | 0.3159 |
| 0.1100         | *****  | 0.1200           | 0.1640 |
| 0.1700         | *****  | 0.1800           | 0.3772 |
| 0.2200         | *****  | 0.2100           | 0.4905 |
| 0.2700         | *****  | 0.2700           | 0.6094 |
| 0.3200         | *****  | 0.3100           | 0.7025 |
| 0.3600         | *****  | 0.3700           | 0.7883 |
| 0.4100         | *****  | 0.4200           | 0.8600 |
| 0.5100         | *****  | 0.5300           | 0.9625 |
| 0.7200         | *****  | 0.7300           | 1.0033 |
| 0.9100         | *****  | 0.9400           | 1.0040 |
| 1.1100         | *****  | 1.1500           | 1.0011 |
| 1.3000         | *****  | 1.3500           | 1.0004 |
| 1.5300         | *****  | 1.5500           | 1.0022 |
| 1.7400         | *****  | 1.7500           | 1.0023 |
| 1.9400         | *****  | 1.9500           | 1.0027 |
| 2.1400         | *****  | 2.1600           | 0.9955 |
| 2.3500         | *****  | 2.3700           | 0.9955 |
| 2.5500         | *****  | 2.5800           | 0.9930 |

\*\*\*\*\* - no data

Flight 34 Test point 50

Sweep, deg = 30.0 Mach = 0.81 hp, ft = 20000. Angle of attack, deg = 0.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 441.9 Rrho = 3496000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7127                        | 0.1908                         | 0.0848                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4253 |
| 0.0500         | *****  | 0.0700           | 0.4880 |
| 0.1100         | *****  | 0.1200           | 0.5541 |
| 0.1700         | *****  | 0.1800           | 0.6112 |
| 0.2200         | *****  | 0.2100           | 0.6546 |
| 0.2700         | *****  | 0.2700           | 0.7183 |
| 0.3200         | *****  | 0.3100           | 0.7751 |
| 0.3600         | *****  | 0.3700           | 0.8299 |
| 0.4100         | *****  | 0.4200           | 0.8833 |
| 0.5100         | *****  | 0.5300           | 0.9686 |
| 0.7200         | *****  | 0.7300           | 1.0026 |
| 0.9100         | *****  | 0.9400           | 1.0035 |
| 1.1100         | *****  | 1.1500           | 0.9993 |
| 1.3000         | *****  | 1.3500           | 0.9981 |
| 1.5300         | *****  | 1.5500           | 1.0011 |
| 1.7400         | *****  | 1.7500           | 0.9990 |
| 1.9400         | *****  | 1.9500           | 1.0003 |
| 2.1400         | *****  | 2.1600           | 0.9979 |
| 2.3500         | *****  | 2.3700           | 0.9988 |
| 2.5500         | *****  | 2.5800           | 0.9994 |

\*\*\*\*\* - no data

Flight 34 Test point 51

Sweep, deg = 30.0 Mach = 0.80 hp, ft = 20100. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 437.8 Rrho = 3474000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7201                        | 0.2324                         | 0.0932                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3071 |
| 0.0500         | *****  | 0.0700           | 0.3712 |
| 0.1100         | *****  | 0.1200           | 0.4494 |
| 0.1700         | *****  | 0.1800           | 0.5181 |
| 0.2200         | *****  | 0.2100           | 0.5676 |
| 0.2700         | *****  | 0.2700           | 0.6421 |
| 0.3200         | *****  | 0.3100           | 0.7080 |
| 0.3600         | *****  | 0.3700           | 0.7762 |
| 0.4100         | *****  | 0.4200           | 0.8375 |
| 0.5100         | *****  | 0.5300           | 0.9466 |
| 0.7200         | *****  | 0.7300           | 1.0024 |
| 0.9100         | *****  | 0.9400           | 1.0031 |
| 1.1100         | *****  | 1.1500           | 0.9996 |
| 1.3000         | *****  | 1.3500           | 0.9984 |
| 1.5300         | *****  | 1.5500           | 1.0011 |
| 1.7400         | *****  | 1.7500           | 0.9998 |
| 1.9400         | *****  | 1.9500           | 1.0010 |
| 2.1400         | *****  | 2.1600           | 0.9971 |
| 2.3500         | *****  | 2.3700           | 0.9989 |
| 2.5500         | *****  | 2.5800           | 0.9985 |

\*\*\*\*\* - no data

Flight 34 Test point 52

Sweep, deg = 30.1 Mach = 0.43 hp, ft = 19800. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = 0.5 QBAR, lb/ft<sup>2</sup> = 445.2 Rrho = 3518000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     | none                        |
| Outboard station rake | 0.7260                                 | 0.2887                                  | 0.0940                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.1646 |
| 0.0500         | *****  | 0.0700           | 0.2136 |
| 0.1100         | *****  | 0.1200           | 0.3151 |
| 0.1700         | *****  | 0.1800           | 0.3854 |
| 0.2200         | *****  | 0.2100           | 0.4482 |
| 0.2700         | *****  | 0.2700           | 0.5456 |
| 0.3200         | *****  | 0.3100           | 0.6318 |
| 0.3600         | *****  | 0.3700           | 0.7148 |
| 0.4100         | *****  | 0.4200           | 0.7887 |
| 0.5100         | *****  | 0.5300           | 0.9110 |
| 0.7200         | *****  | 0.7300           | 1.0016 |
| 0.9100         | *****  | 0.9400           | 1.0029 |
| 1.1100         | *****  | 1.1500           | 0.9994 |
| 1.3000         | *****  | 1.3500           | 0.9983 |
| 1.5300         | *****  | 1.5500           | 1.0015 |
| 1.7400         | *****  | 1.7500           | 0.9998 |
| 1.9400         | *****  | 1.9500           | 1.0011 |
| 2.1400         | *****  | 2.1600           | 1.0001 |
| 2.3500         | *****  | 2.3700           | 0.9995 |
| 2.5500         | *****  | 2.5800           | 0.9958 |

\*\*\*\*\* - no data

Flight 34 Test point 53

Sweep, deg = 30.1 Mach = 0.83 hp, ft = 20000. Angle of attack, deg = -0.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 470.4 Rrho = 3620000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   | 0.5727                                 | 0.2085                                  | 0.0706                              | none                        |
| Outboard station rake |  |   |                                     | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.1462 |
| 0.0500         | *****  | 0.0700           | 0.3248 |
| 0.1100         | *****  | 0.1200           | 0.4892 |
| 0.1700         | *****  | 0.1800           | 0.5892 |
| 0.2200         | *****  | 0.2100           | 0.6621 |
| 0.2700         | *****  | 0.2700           | 0.7417 |
| 0.3200         | *****  | 0.3100           | 0.8039 |
| 0.3600         | *****  | 0.3700           | 0.8611 |
| 0.4100         | *****  | 0.4200           | 0.9076 |
| 0.5100         | *****  | 0.5300           | 0.9761 |
| 0.7200         | *****  | 0.7300           | 1.0041 |
| 0.9100         | *****  | 0.9400           | 1.0045 |
| 1.1100         | *****  | 1.1500           | 1.0021 |
| 1.3000         | *****  | 1.3500           | 1.0013 |
| 1.5300         | *****  | 1.5500           | 1.0043 |
| 1.7400         | *****  | 1.7500           | 1.0039 |
| 1.9400         | *****  | 1.9500           | 1.0039 |
| 2.1400         | *****  | 2.1600           | 1.0024 |
| 2.3500         | *****  | 2.3700           | 0.9993 |
| 2.5500         | *****  | 2.5800           | 0.9982 |

\*\*\*\*\* - no data

Flight 34 Test point 54

Sweep, deg = 30.0 Mach = 0.83 hp, ft = 20000. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 465.0 Rnpu = 3592000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | *****                      | *****                       | *****                   | none             |
| Outboard station rake | 0.7128                     | 0.2235                      | 0.0721                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.0738 |
| 0.0500         | *****  | 0.0700           | 0.2792 |
| 0.1100         | *****  | 0.1200           | 0.4636 |
| 0.1700         | *****  | 0.1800           | 0.5727 |
| 0.2200         | *****  | 0.2100           | 0.6455 |
| 0.2700         | *****  | 0.2700           | 0.7276 |
| 0.3200         | *****  | 0.3100           | 0.7889 |
| 0.3600         | *****  | 0.3700           | 0.8492 |
| 0.4100         | *****  | 0.4200           | 0.8970 |
| 0.5100         | *****  | 0.5300           | 0.9691 |
| 0.7200         | *****  | 0.7300           | 1.0025 |
| 0.9100         | *****  | 0.9400           | 1.0038 |
| 1.1100         | *****  | 1.1500           | 1.0004 |
| 1.3000         | *****  | 1.3500           | 1.0002 |
| 1.5300         | *****  | 1.5500           | 1.0025 |
| 1.7400         | *****  | 1.7500           | 1.0022 |
| 1.9400         | *****  | 1.9500           | 1.0026 |
| 2.1400         | *****  | 2.1600           | 0.9997 |
| 2.3500         | *****  | 2.3700           | 0.9951 |
| 2.5500         | *****  | 2.5800           | 0.9910 |

\*\*\*\*\* - no data

Flight 34 Test point 55

Sweep, deg = 30.0 Mach = 0.83 hp, ft = 20100. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 462.9 Rnpu = 3581000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     | none                        |
| Outboard station rake | 0.7085                                 | 0.2344                                  | 0.0800                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.2150 |
| 0.0500         | *****  | 0.0700           | 0.2980 |
| 0.1100         | *****  | 0.1200           | 0.4232 |
| 0.1700         | *****  | 0.1800           | 0.5264 |
| 0.2200         | *****  | 0.2100           | 0.5996 |
| 0.2700         | *****  | 0.2700           | 0.6864 |
| 0.3200         | *****  | 0.3100           | 0.7573 |
| 0.3600         | *****  | 0.3700           | 0.8238 |
| 0.4100         | *****  | 0.4200           | 0.8769 |
| 0.5100         | *****  | 0.5300           | 0.9584 |
| 0.7200         | *****  | 0.7300           | 1.0044 |
| 0.9100         | *****  | 0.9400           | 1.0054 |
| 1.1100         | *****  | 1.1500           | 1.0031 |
| 1.3000         | *****  | 1.3500           | 1.0027 |
| 1.5300         | *****  | 1.5500           | 1.0047 |
| 1.7400         | *****  | 1.7500           | 1.0035 |
| 1.9400         | *****  | 1.9500           | 1.0038 |
| 2.1400         | *****  | 2.1600           | 0.9952 |
| 2.3500         | *****  | 2.3700           | 0.9888 |
| 2.5500         | *****  | 2.5800           | 0.9885 |

\*\*\*\*\* - no data

Flight 35 Test point 1

Sweep, deg = 30.1 Mach = 0.82 hp, ft = 25000. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 373.6 Rnpu = 2997000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7123                                 | 0.2266                                  | 0.0740                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.0782 |
| 0.0500         | *****  | 0.0700           | 0.2955 |
| 0.1100         | *****  | 0.1200           | 0.4624 |
| 0.1700         | *****  | 0.1800           | 0.5710 |
| 0.2200         | *****  | 0.2100           | 0.6391 |
| 0.2700         | *****  | 0.2700           | 0.7201 |
| 0.3200         | *****  | 0.3100           | 0.7825 |
| 0.3600         | *****  | 0.3700           | 0.8437 |
| 0.4100         | *****  | 0.4200           | 0.8890 |
| 0.5100         | *****  | 0.5300           | 0.9640 |
| 0.7200         | *****  | 0.7300           | 1.0030 |
| 0.9100         | *****  | 0.9400           | 1.0037 |
| 1.1100         | *****  | 1.1500           | 1.0006 |
| 1.3000         | *****  | 1.3500           | 0.9995 |
| 1.5300         | *****  | 1.5500           | 1.0027 |
| 1.7400         | *****  | 1.7500           | 1.0030 |
| 1.9400         | *****  | 1.9500           | 1.0024 |
| 2.1400         | *****  | 2.1600           | 1.0004 |
| 2.3500         | *****  | 2.3700           | 0.9939 |
| 2.5500         | *****  | 2.5800           | 0.9907 |

\*\*\*\*\* = no data



Flight 35 Test point 2

Sweep, deg = 30.1 Mach = 0.83 hp, ft = 25000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 377.5 Rrho = 3025000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7214                        | 0.2804                         | 0.0932                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.2440 |
| 0.0500         | *****  | 0.0700           | 0.2616 |
| 0.1100         | *****  | 0.1200           | 0.3318 |
| 0.1700         | *****  | 0.1800           | 0.3970 |
| 0.2200         | *****  | 0.2100           | 0.4648 |
| 0.2700         | *****  | 0.2700           | 0.5636 |
| 0.3200         | *****  | 0.3100           | 0.6464 |
| 0.3600         | *****  | 0.3700           | 0.7316 |
| 0.4100         | *****  | 0.4200           | 0.8035 |
| 0.5100         | *****  | 0.5300           | 0.9189 |
| 0.7200         | *****  | 0.7300           | 1.0032 |
| 0.9100         | *****  | 0.9400           | 1.0645 |
| 1.1100         | *****  | 1.1500           | 1.0017 |
| 1.3000         | *****  | 1.3500           | 0.9999 |
| 1.5300         | *****  | 1.5500           | 1.0035 |
| 1.7400         | *****  | 1.7500           | 1.0022 |
| 1.9400         | *****  | 1.9500           | 1.0036 |
| 2.1400         | *****  | 2.1600           | 1.0008 |
| 2.3500         | *****  | 2.3700           | 0.9929 |
| 2.5500         | *****  | 2.5800           | 0.9877 |

\*\*\*\*\* - no data

Flight 35 Test point 3

Sweep, deg = 34.7 Mach = 0.81 hp, ft = 25000. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 356.9 Rnpu = 2932000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     | none                        |
| Outboard station rake | 0.7281                                 | 0.1815                                  | 0.0851                              | none                        |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.5032             |
| 0.0500         | *****              | 0.0700           | 0.5369             |
| 0.1100         | *****              | 0.1200           | 0.5994             |
| 0.1700         | *****              | 0.1800           | 0.6483             |
| 0.2200         | *****              | 0.2100           | 0.6851             |
| 0.2700         | *****              | 0.2700           | 0.7434             |
| 0.3200         | *****              | 0.3100           | 0.7918             |
| 0.3600         | *****              | 0.3700           | 0.8354             |
| 0.4100         | *****              | 0.4200           | 0.8795             |
| 0.5100         | *****              | 0.5300           | 0.9564             |
| 0.7200         | *****              | 0.7300           | 1.0004             |
| 0.9100         | *****              | 0.9400           | 1.0035             |
| 1.1100         | *****              | 1.1500           | 0.9977             |
| 1.3000         | *****              | 1.3500           | 0.9966             |
| 1.5300         | *****              | 1.5500           | 1.0001             |
| 1.7400         | *****              | 1.7500           | 0.9996             |
| 1.9400         | *****              | 1.9500           | 1.0015             |
| 2.1400         | *****              | 2.1600           | 0.9995             |
| 2.3500         | *****              | 2.3700           | 1.0009             |
| 2.5500         | *****              | 2.5800           | 1.0002             |

\*\*\*\*\* - no data

Flight 35 Test point 4

Sweep, deg = 34.8 Mach = 0.80 hp, ft = 25500. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 345.6 Rrho = 2858000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.7180                                 | 0.1744                                  | 0.0824                              | none                        |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.5137             |
| 0.0500         | *****              | 0.0700           | 0.5500             |
| 0.1100         | *****              | 0.1200           | 0.6068             |
| 0.1700         | *****              | 0.1800           | 0.6568             |
| 0.2200         | *****              | 0.2100           | 0.6979             |
| 0.2700         | *****              | 0.2700           | 0.7559             |
| 0.3200         | *****              | 0.3100           | 0.8042             |
| 0.3600         | *****              | 0.3700           | 0.8459             |
| 0.4100         | *****              | 0.4200           | 0.8893             |
| 0.5100         | *****              | 0.5300           | 0.9618             |
| 0.7200         | *****              | 0.7300           | 1.0021             |
| 0.9100         | *****              | 0.9400           | 1.0024             |
| 1.1100         | *****              | 1.1500           | 0.9980             |
| 1.3000         | *****              | 1.3500           | 0.9952             |
| 1.5300         | *****              | 1.5500           | 1.0008             |
| 1.7400         | *****              | 1.7500           | 1.0009             |
| 1.9400         | *****              | 1.9500           | 1.0011             |
| 2.1400         | *****              | 2.1600           | 1.0002             |
| 2.3500         | *****              | 2.3700           | 0.9996             |
| 2.5500         | *****              | 2.5800           | 0.9997             |

\*\*\*\*\* - no data

Flight 35 Test point 5

Sweep, deg = 30.1 Mach = 0.80 h, ft = 25000. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -0.4 QAR, lb/ft<sup>2</sup> = 353.8 Rnpu = 2907000.

|                       | Boundary layer height, in.<br>***** | Displacement thickness, in.<br>***** | Momentum thickness, in.<br>***** | Transition strip<br>none |
|-----------------------|-------------------------------------|--------------------------------------|----------------------------------|--------------------------|
| Middle station rake   |                                     |                                      |                                  | none                     |
| Outboard station rake | 0.7205                              | 0.2531                               | 0.0956                           | none                     |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.2387 |
| 0.0500         | *****  | 0.0700           | 0.3133 |
| 0.1100         | *****  | 0.1200           | 0.4113 |
| 0.1700         | *****  | 0.1800           | 0.4779 |
| 0.2200         | *****  | 0.2100           | 0.5284 |
| 0.2700         | *****  | 0.2700           | 0.6056 |
| 0.3200         | *****  | 0.3100           | 0.6783 |
| 0.3600         | *****  | 0.3700           | 0.7453 |
| 0.4100         | *****  | 0.4200           | 0.8129 |
| 0.5100         | *****  | 0.5300           | 0.9320 |
| 0.7200         | *****  | 0.7300           | 1.0030 |
| 0.9100         | *****  | 0.9400           | 1.0041 |
| 1.1100         | *****  | 1.1500           | 0.9991 |
| 1.3000         | *****  | 1.3500           | 0.9969 |
| 1.5300         | *****  | 1.5500           | 1.0014 |
| 1.7400         | *****  | 1.7500           | 1.0006 |
| 1.9400         | *****  | 1.9500           | 1.0004 |
| 2.1400         | *****  | 2.1600           | 0.9979 |
| 2.3500         | *****  | 2.3700           | 0.9992 |
| 2.5500         | *****  | 2.5800           | 0.9974 |

\*\*\*\*\* - no data

Flight 35 Test point 6

Sweep, deg = 30.1 Mach = 0.80 hp, ft = 25500. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 345.9 Rnpu = 2853000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | *****                      | *****                       | *****                   | none             |
| Outboard station rake | 0.7212                     | 0.2231                      | 0.0027                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3444 |
| 0.0500         | *****  | 0.0700           | 0.4122 |
| 0.1100         | *****  | 0.1300           | 0.4841 |
| 0.1700         | *****  | 0.1800           | 0.5459 |
| 0.2200         | *****  | 0.2100           | 0.5890 |
| 0.2700         | *****  | 0.2700           | 0.6566 |
| 0.3200         | *****  | 0.3100           | 0.7199 |
| 0.3600         | *****  | 0.3700           | 0.7844 |
| 0.4100         | *****  | 0.4200           | 0.8451 |
| 0.5100         | *****  | 0.5300           | 0.9490 |
| 0.7200         | *****  | 0.7300           | 1.0021 |
| 0.9100         | *****  | 0.9400           | 1.0048 |
| 1.1100         | *****  | 1.1500           | 0.9997 |
| 1.3000         | *****  | 1.3500           | 0.9986 |
| 1.5300         | *****  | 1.5500           | 1.0019 |
| 1.7400         | *****  | 1.7500           | 0.9991 |
| 1.9400         | *****  | 1.9500           | 0.9994 |
| 2.1400         | *****  | 2.1600           | 0.9988 |
| 2.3500         | *****  | 2.3700           | 0.9979 |
| 2.5500         | *****  | 2.5800           | 0.9977 |

\*\*\*\*\* - no data

Flight 35 Test point 7

Sweep, deg = 30.0 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 353.8 Rnpu = 2907000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | *****                      | *****                       | *****                   | none             |
| Outboard station rake | 0.7260                     | 0.2919                      | 0.0989                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.2009 |
| 0.0500         | *****  | 0.0700           | 0.2275 |
| 0.1100         | *****  | 0.1200           | 0.3283 |
| 0.1700         | *****  | 0.1800           | 0.3942 |
| 0.2200         | *****  | 0.2100           | 0.4471 |
| 0.2700         | *****  | 0.2700           | 0.5320 |
| 0.3200         | *****  | 0.3100           | 0.6104 |
| 0.3600         | *****  | 0.3700           | 0.6904 |
| 0.4100         | *****  | 0.4200           | 0.7678 |
| 0.5100         | *****  | 0.5300           | 0.8978 |
| 0.7200         | *****  | 0.7300           | 1.0019 |
| 0.9100         | *****  | 0.9400           | 1.0028 |
| 1.1100         | *****  | 1.1500           | 0.9994 |
| 1.3000         | *****  | 1.3500           | 0.9982 |
| 1.5300         | *****  | 1.5500           | 1.0015 |
| 1.7400         | *****  | 1.7500           | 1.0006 |
| 1.9400         | *****  | 1.9500           | 1.0021 |
| 2.1400         | *****  | 2.1600           | 0.9997 |
| 2.3500         | *****  | 2.3700           | 0.9991 |
| 2.5500         | *****  | 2.5800           | 0.9966 |

\*\*\*\*\* - no data

Flight 35 Test point 8

Sweep, deg = 24.9 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 353.7 Rrho = 2905000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7163                        | 0.2308                         | 0.0765                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4031 |
| 0.0500         | *****  | 0.0700           | 0.2941 |
| 0.1100         | *****  | 0.1200           | 0.2856 |
| 0.1700         | *****  | 0.1800           | 0.4609 |
| 0.2200         | *****  | 0.2100           | 0.5630 |
| 0.2700         | *****  | 0.2700           | 0.6743 |
| 0.3200         | *****  | 0.3100           | 0.7612 |
| 0.3600         | *****  | 0.3700           | 0.8380 |
| 0.4100         | *****  | 0.4200           | 0.8974 |
| 0.5100         | *****  | 0.5300           | 0.9800 |
| 0.7200         | *****  | 0.7300           | 1.0013 |
| 0.9100         | *****  | 0.9400           | 1.0027 |
| 1.1100         | *****  | 1.1500           | 0.9989 |
| 1.3000         | *****  | 1.3500           | 0.9988 |
| 1.5300         | *****  | 1.5500           | 1.0007 |
| 1.7400         | *****  | 1.7500           | 1.0012 |
| 1.9400         | *****  | 1.9500           | 1.0022 |
| 2.1400         | *****  | 2.1600           | 0.9997 |
| 2.3500         | *****  | 2.3700           | 0.9977 |
| 2.5500         | *****  | 2.5800           | 0.9968 |

\*\*\*\*\* - no data

Flight 35 Test point 9

Sweep, deg = 24.9 Mach = 0.81 hp, ft = 25000. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 355.3 Rrho = 2914000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     | none                        |
| Outboard station rake | 0.6911                                 | 0.2636                                  | 0.0707                              | none                        |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.1518             |
| 0.0500         | *****              | 0.0700           | 0.0179             |
| 0.1100         | *****              | 0.1200           | 0.2880             |
| 0.1700         | *****              | 0.1800           | 0.4008             |
| 0.2200         | *****              | 0.2100           | 0.4883             |
| 0.2700         | *****              | 0.2700           | 0.6013             |
| 0.3200         | *****              | 0.3100           | 0.7045             |
| 0.3600         | *****              | 0.3700           | 0.7990             |
| 0.4100         | *****              | 0.4200           | 0.8753             |
| 0.5100         | *****              | 0.5300           | 0.9802             |
| 0.7200         | *****              | 0.7300           | 1.0041             |
| 0.9100         | *****              | 0.9400           | 1.0050             |
| 1.1100         | *****              | 1.1500           | 1.0025             |
| 1.3000         | *****              | 1.3500           | 1.0010             |
| 1.5300         | *****              | 1.5500           | 1.0040             |
| 1.7400         | *****              | 1.7500           | 1.0033             |
| 1.9400         | *****              | 1.9500           | 1.0036             |
| 2.1400         | *****              | 2.1600           | 0.9946             |
| 2.3500         | *****              | 2.3700           | 0.9917             |
| 2.5500         | *****              | 2.5800           | 0.9901             |

\*\*\*\*\* - no data



Flight 35 Test point 10

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.1  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 350.4 Rrho = 2894000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     | none                        |
| Outboard station rake | 0.6981                                 | 0.2431                                  | 0.0801                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5616 |
| 0.0500         | *****  | 0.0700           | 0.5224 |
| 0.1100         | *****  | 0.1200           | 0.3225 |
| 0.1700         | *****  | 0.1800           | 0.2107 |
| 0.2200         | *****  | 0.2100           | 0.4120 |
| 0.2700         | *****  | 0.2700           | 0.5735 |
| 0.3200         | *****  | 0.3100           | 0.6867 |
| 0.3600         | *****  | 0.3700           | 0.7909 |
| 0.4100         | *****  | 0.4200           | 0.8749 |
| 0.5100         | *****  | 0.5300           | 0.9858 |
| 0.7200         | *****  | 0.7300           | 1.0023 |
| 0.9100         | *****  | 0.9400           | 1.0031 |
| 1.1100         | *****  | 1.1500           | 1.0001 |
| 1.3000         | *****  | 1.3500           | 0.9984 |
| 1.5300         | *****  | 1.5500           | 1.0021 |
| 1.7400         | *****  | 1.7500           | 1.0016 |
| 1.9400         | *****  | 1.9500           | 1.0018 |
| 2.1400         | *****  | 2.1600           | 0.9976 |
| 2.3500         | *****  | 2.3700           | 0.9957 |
| 2.5500         | *****  | 2.5800           | 0.9973 |

\*\*\*\*\* - no data

Flight 35 Test point 11

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 25000. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -5.0 QBAR, lb/ft<sup>2</sup> = 353.8 Rrho = 2910000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     | none                        |
| Outboard station rake | 0.5588                                 | 0.2253                                  | 0.0736                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.6049 |
| 0.0500         | *****  | 0.0700           | 0.5871 |
| 0.1100         | *****  | 0.1200           | 0.3483 |
| 0.1700         | *****  | 0.1800           | 0.2121 |
| 0.2200         | *****  | 0.2100           | 0.4468 |
| 0.2700         | *****  | 0.2700           | 0.6266 |
| 0.3200         | *****  | 0.3100           | 0.7463 |
| 0.3600         | *****  | 0.3700           | 0.8452 |
| 0.4100         | *****  | 0.4200           | 0.9122 |
| 0.5100         | *****  | 0.5300           | 0.9831 |
| 0.7200         | *****  | 0.7300           | 1.0030 |
| 0.9100         | *****  | 0.9400           | 1.0043 |
| 1.1100         | *****  | 1.1500           | 1.0009 |
| 1.3000         | *****  | 1.3500           | 1.0010 |
| 1.5300         | *****  | 1.5500           | 1.0037 |
| 1.7400         | *****  | 1.7500           | 1.0022 |
| 1.9400         | *****  | 1.9500           | 1.0027 |
| 2.1400         | *****  | 2.1600           | 1.0000 |
| 2.3500         | *****  | 2.3700           | 0.9998 |
| 2.5500         | *****  | 2.5800           | 0.9993 |

\*\*\*\*\* - no data

Flight 35 Test point 12

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 24900. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.5 QBAR, lb/ft<sup>2</sup> = 355.0 Rnpu = 2926000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.4679                        | 0.1720                         | 0.0522                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3876 |
| 0.0500         | *****  | 0.0700           | 0.2310 |
| 0.1100         | *****  | 0.1200           | 0.4261 |
| 0.1700         | *****  | 0.1800           | 0.6137 |
| 0.2200         | *****  | 0.2100           | 0.7433 |
| 0.2700         | *****  | 0.2700           | 0.8571 |
| 0.3200         | *****  | 0.3100           | 0.9194 |
| 0.3600         | *****  | 0.3700           | 0.9582 |
| 0.4100         | *****  | 0.4200           | 0.9755 |
| 0.5100         | *****  | 0.5300           | 0.9923 |
| 0.7200         | *****  | 0.7300           | 1.0041 |
| 0.9100         | *****  | 0.9400           | 1.0053 |
| 1.1100         | *****  | 1.1500           | 1.0025 |
| 1.3000         | *****  | 1.3500           | 1.0016 |
| 1.5300         | *****  | 1.5500           | 1.0039 |
| 1.7400         | *****  | 1.7500           | 1.0026 |
| 1.9400         | *****  | 1.9500           | 1.0017 |
| 2.1400         | *****  | 2.1600           | 0.9973 |
| 2.3500         | *****  | 2.3700           | 0.9953 |
| 2.5500         | *****  | 2.5800           | 0.9934 |

\*\*\*\*\* - no data

Flight 35 Test point 13

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 24900. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 312.1 Rnpu = 2724000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.4339                        | 0.1201                         | 0.0462                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.2213 |
| 0.0500         | *****  | 0.0700           | 0.5206 |
| 0.1100         | *****  | 0.1200           | 0.7052 |
| 0.1700         | *****  | 0.1800           | 0.7966 |
| 0.2200         | *****  | 0.2100           | 0.8481 |
| 0.2700         | *****  | 0.2700           | 0.9011 |
| 0.3200         | *****  | 0.3100           | 0.9429 |
| 0.3600         | *****  | 0.3700           | 0.9633 |
| 0.4100         | *****  | 0.4200           | 0.9864 |
| 0.5100         | *****  | 0.5300           | 0.9978 |
| 0.7200         | *****  | 0.7300           | 1.0018 |
| 0.9100         | *****  | 0.9400           | 1.0035 |
| 1.1100         | *****  | 1.1500           | 0.9991 |
| 1.3000         | *****  | 1.3500           | 0.9969 |
| 1.5300         | *****  | 1.5500           | 1.0016 |
| 1.7400         | *****  | 1.7500           | 1.0020 |
| 1.9400         | *****  | 1.9500           | 1.0034 |
| 2.1400         | *****  | 2.1600           | 1.0017 |
| 2.3500         | *****  | 2.3700           | 1.0028 |
| 2.5500         | *****  | 2.5800           | 1.0029 |

\*\*\*\*\* - no data

Flight 35 Test point 14

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 25000. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 311.8 Rrho = 2715000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5651                        | 0.1302                         | 0.0555                     | none                |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.3399             |
| 0.0500         | *****              | 0.0700           | 0.4506             |
| 0.1100         | *****              | 0.1200           | 0.6988             |
| 0.1700         | *****              | 0.1800           | 0.8002             |
| 0.2200         | *****              | 0.2100           | 0.8348             |
| 0.2700         | *****              | 0.2700           | 0.8780             |
| 0.3200         | *****              | 0.3100           | 0.9120             |
| 0.3600         | *****              | 0.3700           | 0.9374             |
| 0.4100         | *****              | 0.4200           | 0.9589             |
| 0.5100         | *****              | 0.5300           | 0.9885             |
| 0.7200         | *****              | 0.7300           | 1.0008             |
| 0.9100         | *****              | 0.9400           | 1.0035             |
| 1.1100         | *****              | 1.1500           | 0.9973             |
| 1.3000         | *****              | 1.3500           | 0.9948             |
| 1.5300         | *****              | 1.5500           | 1.0026             |
| 1.7400         | *****              | 1.7500           | 1.0019             |
| 1.9400         | *****              | 1.9500           | 1.0033             |
| 2.1400         | *****              | 2.1600           | 1.0036             |
| 2.3500         | *****              | 2.3700           | 1.0016             |
| 2.5500         | *****              | 2.5800           | 1.0021             |

\*\*\*\*\* - no data

Flight 35 Test point 15

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 24800. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 312.1 Rrho = 2725000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.3890                        | 0.1210                         | 0.0417                     | none                |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.1202             |
| 0.0500         | *****              | 0.0700           | 0.4988             |
| 0.1100         | *****              | 0.1200           | 0.6958             |
| 0.1700         | *****              | 0.1800           | 0.7990             |
| 0.2200         | *****              | 0.2100           | 0.8521             |
| 0.2700         | *****              | 0.2700           | 0.9137             |
| 0.3200         | *****              | 0.3100           | 0.9550             |
| 0.3600         | *****              | 0.3700           | 0.9833             |
| 0.4100         | *****              | 0.4200           | 0.9950             |
| 0.5100         | *****              | 0.5300           | 1.0012             |
| 0.7200         | *****              | 0.7300           | 1.0027             |
| 0.9100         | *****              | 0.9400           | 1.0045             |
| 1.1100         | *****              | 1.1500           | 0.9989             |
| 1.3000         | *****              | 1.3500           | 0.9980             |
| 1.5300         | *****              | 1.5500           | 1.0025             |
| 1.7400         | *****              | 1.7500           | 1.0022             |
| 1.9400         | *****              | 1.9500           | 1.0030             |
| 2.1400         | *****              | 2.1600           | 1.0029             |
| 2.3500         | *****              | 2.3700           | 1.0019             |
| 2.5500         | *****              | 2.5800           | 1.0040             |

\*\*\*\*\* - no data

Flight 35 Test point 16

Sweep, deg = 24.9 Mach = 0.75 hp, ft = 25000, Angle of attack, deg = 1.4  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 309.5 Rrho = 2709000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | *****                      | *****                       | *****                   | none             |
| Outboard station rake | 0.3500                     | 0.1054                      | 0.0446                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4644 |
| 0.0500         | *****  | 0.0700           | 0.5825 |
| 0.1100         | *****  | 0.1200           | 0.7036 |
| 0.1700         | *****  | 0.1800           | 0.7942 |
| 0.2200         | *****  | 0.2100           | 0.8547 |
| 0.2700         | *****  | 0.2700           | 0.9197 |
| 0.3200         | *****  | 0.3100           | 0.9650 |
| 0.3600         | *****  | 0.3700           | 0.9907 |
| 0.4100         | *****  | 0.4200           | 0.9997 |
| 0.5100         | *****  | 0.5300           | 1.0020 |
| 0.7200         | *****  | 0.7300           | 1.0015 |
| 0.9100         | *****  | 0.9400           | 1.0039 |
| 1.1100         | *****  | 1.1500           | 0.9982 |
| 1.3000         | *****  | 1.3500           | 0.9964 |
| 1.5300         | *****  | 1.5500           | 1.0011 |
| 1.7400         | *****  | 1.7500           | 1.0002 |
| 1.9400         | *****  | 1.9500           | 1.0031 |
| 2.1400         | *****  | 2.1600           | 1.0001 |
| 2.3500         | *****  | 2.3700           | 1.0014 |
| 2.5500         | *****  | 2.5800           | 1.0018 |

\*\*\*\*\* - no data

Flight 35 Test point 17

Sweep, deg = 24.6 Mach = 0.75 hp, ft = 25400, Angle of attack, deg = 0.4  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 302.7 Rrho = 2664000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | *****                      | *****                       | *****                   | none             |
| Outboard station rake | 0.4160                     | 0.1298                      | 0.0531                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3498 |
| 0.0500         | *****  | 0.0700           | 0.5061 |
| 0.1100         | *****  | 0.1200           | 0.6428 |
| 0.1700         | *****  | 0.1800           | 0.7323 |
| 0.2200         | *****  | 0.2100           | 0.7969 |
| 0.2700         | *****  | 0.2700           | 0.8680 |
| 0.3200         | *****  | 0.3100           | 0.9249 |
| 0.3600         | *****  | 0.3700           | 0.9694 |
| 0.4100         | *****  | 0.4200           | 0.9951 |
| 0.5100         | *****  | 0.5300           | 1.0045 |
| 0.7200         | *****  | 0.7300           | 1.0038 |
| 0.9100         | *****  | 0.9400           | 1.0048 |
| 1.1100         | *****  | 1.1500           | 1.0004 |
| 1.3000         | *****  | 1.3500           | 0.9981 |
| 1.5300         | *****  | 1.5500           | 1.0047 |
| 1.7400         | *****  | 1.7500           | 1.0033 |
| 1.9400         | *****  | 1.9500           | 1.0049 |
| 2.1400         | *****  | 2.1600           | 1.0034 |
| 2.3500         | *****  | 2.3700           | 1.0030 |
| 2.5500         | *****  | 2.5800           | 1.0046 |

\*\*\*\*\* - no data



Flight 35 Test point 18

Sweep, deg = 30.2 Mach = 0.75 hp, ft = 25000. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 310.1 Rrho = 2715000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     | none                        |
| Outboard station rake | 0.7210                                 | 0.1682                                  | 0.0807                              | none                        |

| Middle station |        | Outboard station |          |
|----------------|--------|------------------|----------|
| Y, in.         | U/Umax | Y, in.           | U/Umax   |
| 0.0300         | *****  | 0.0400           | 0.4981   |
| 0.0500         | *****  | 0.0700           | 0.5531   |
| 0.1100         | *****  | 0.1200           | 0.6257   |
| 0.1700         | *****  | 0.1800           | 0.6767   |
| 0.2200         | *****  | 0.2100           | 0.7118   |
| 0.2700         | *****  | 0.2700           | 0.7674   |
| 0.3200         | *****  | 0.3100           | 0.8149   |
| 0.3600         | *****  | 0.3700           | 0.8570 * |
| 0.4100         | *****  | 0.4200           | 0.8943   |
| 0.5100         | *****  | 0.5300           | 0.9637   |
| 0.7200         | *****  | 0.7300           | 1.0015   |
| 0.9100         | *****  | 0.9400           | 1.0023   |
| 1.1100         | *****  | 1.1500           | 0.9962   |
| 1.3000         | *****  | 1.3500           | 0.9960   |
| 1.5300         | *****  | 1.5500           | 1.0004   |
| 1.7400         | *****  | 1.7500           | 0.9989   |
| 1.9400         | *****  | 1.9500           | 1.0012   |
| 2.1400         | *****  | 2.1600           | 1.0009   |
| 2.3500         | *****  | 2.3700           | 1.0007   |
| 2.5500         | *****  | 2.5800           | 1.0019   |

\*\*\*\*\* - no data

Flight 35 Test point 19

Sweep, deg = 30.5 Mach = 0.75 hp, ft = 25200, Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 307.4 Rnpu = 2689000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     | none                        |
| Outboard station rake | 0.5808                                 | 0.1597                                  | 0.0756                              | none                        |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.5121             |
| 0.0500         | *****              | 0.0700           | 0.5637             |
| 0.1100         | *****              | 0.1200           | 0.6327             |
| 0.1700         | *****              | 0.1800           | 0.6880             |
| 0.2200         | *****              | 0.2100           | 0.7225             |
| 0.2700         | *****              | 0.2700           | 0.7791             |
| 0.3200         | *****              | 0.3100           | 0.8248             |
| 0.3600         | *****              | 0.3700           | 0.8662             |
| 0.4100         | *****              | 0.4200           | 0.9053             |
| 0.5100         | *****              | 0.5300           | 0.9725             |
| 0.7200         | *****              | 0.7300           | 1.0024             |
| 0.9100         | *****              | 0.9400           | 1.0044             |
| 1.1100         | *****              | 1.1500           | 0.9998             |
| 1.3000         | *****              | 1.3500           | 0.9988             |
| 1.5300         | *****              | 1.5500           | 1.0044             |
| 1.7400         | *****              | 1.7500           | 1.0020             |
| 1.9400         | *****              | 1.9500           | 1.0040             |
| 2.1400         | *****              | 2.1600           | 1.0030             |
| 2.3500         | *****              | 2.3700           | 1.0037             |
| 2.5500         | *****              | 2.5800           | 1.0050             |

\*\*\*\*\* - no data

Flight 35 Test point 20

Sweep, deg = 34.9 Mach = 0.75 hp, ft = 25000. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 310.9 Rnpu = 2716000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7263                        | 0.1610                         | 0.0797                     | none                |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.5548             |
| 0.0500         | *****              | 0.0700           | 0.5840             |
| 0.1100         | *****              | 0.1200           | 0.6474             |
| 0.1700         | *****              | 0.1800           | 0.6966             |
| 0.2200         | *****              | 0.2100           | 0.7279             |
| 0.2700         | *****              | 0.2700           | 0.7806             |
| 0.3200         | *****              | 0.3100           | 0.8232             |
| 0.3600         | *****              | 0.3700           | 0.8594             |
| 0.4100         | *****              | 0.4200           | 0.8964             |
| 0.5100         | *****              | 0.5300           | 0.9601             |
| 0.7200         | *****              | 0.7300           | 1.0007             |
| 0.9100         | *****              | 0.9400           | 1.0031             |
| 1.1100         | *****              | 1.1500           | 0.9964             |
| 1.3000         | *****              | 1.3500           | 0.9958             |
| 1.5300         | *****              | 1.5500           | 1.0011             |
| 1.7400         | *****              | 1.7500           | 0.9989             |
| 1.9400         | *****              | 1.9500           | 1.0023             |
| 2.1400         | *****              | 2.1600           | 0.9997             |
| 2.3500         | *****              | 2.3700           | 1.0011             |
| 2.5500         | *****              | 2.5800           | 1.0010             |

\*\*\*\*\* - no data

Flight 35 Test point 21

Sweep, deg = 35.0 Mach = 0.75 hp, ft = 25300. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 306.5 Rnpu = 2678000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     | none                        |
| Outboard station rake | 0.5791                                 | 0.1453                                  | 0.0714                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5719 |
| 0.0500         | *****  | 0.0700           | 0.6082 |
| 0.1100         | *****  | 0.1200           | 0.6661 |
| 0.1700         | *****  | 0.1800           | 0.7151 |
| 0.2200         | *****  | 0.2100           | 0.7520 |
| 0.2700         | *****  | 0.2700           | 0.8043 |
| 0.3200         | *****  | 0.3100           | 0.8450 |
| 0.3600         | *****  | 0.3700           | 0.8804 |
| 0.4100         | *****  | 0.4200           | 0.9160 |
| 0.5100         | *****  | 0.5300           | 0.9761 |
| 0.7200         | *****  | 0.7300           | 1.0036 |
| 0.9100         | *****  | 0.9400           | 1.0043 |
| 1.1100         | *****  | 1.1500           | 0.9993 |
| 1.3000         | *****  | 1.3500           | 0.9986 |
| 1.5300         | *****  | 1.5500           | 1.0028 |
| 1.7400         | *****  | 1.7500           | 1.0021 |
| 1.9400         | *****  | 1.9500           | 1.0041 |
| 2.1400         | *****  | 2.1600           | 1.0015 |
| 2.3500         | *****  | 2.3700           | 1.0035 |
| 2.5500         | *****  | 2.5800           | 1.0042 |

\*\*\*\*\* - no data

Flight 35 Test point 22

Sweep, deg = 35.0 Mach = 0.76 hp, ft = 25200. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 311.1 Rnpu = 2709000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7286                        | 0.1585                         | 0.0784                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5582 |
| 0.0500         | *****  | 0.0700           | 0.5926 |
| 0.1100         | *****  | 0.1200           | 0.6524 |
| 0.1700         | *****  | 0.1800           | 0.6962 |
| 0.2200         | *****  | 0.2100           | 0.7336 |
| 0.2700         | *****  | 0.2700           | 0.7843 |
| 0.3200         | *****  | 0.3100           | 0.8260 |
| 0.3600         | *****  | 0.3700           | 0.8640 |
| 0.4100         | *****  | 0.4200           | 0.8995 |
| 0.5100         | *****  | 0.5300           | 0.9639 |
| 0.7200         | *****  | 0.7300           | 1.0002 |
| 0.9100         | *****  | 0.9400           | 1.0032 |
| 1.1100         | *****  | 1.1500           | 0.9976 |
| 1.3000         | *****  | 1.3500           | 0.9952 |
| 1.5300         | *****  | 1.5500           | 0.9998 |
| 1.7400         | *****  | 1.7500           | 1.0000 |
| 1.9400         | *****  | 1.9500           | 1.0033 |
| 2.1400         | *****  | 2.1600           | 0.9995 |
| 2.3500         | *****  | 2.3700           | 1.0003 |
| 2.5500         | *****  | 2.5800           | 1.0009 |

\*\*\*\*\* - no data

Flight 35 Test point 23

Sweep, deg = 35.0 Mach = 0.70 hp, ft = 24900. Angle of attack, deg = 2.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 270.1 Rnpu = 2514000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7214                        | 0.1525                         | 0.0784                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5786 |
| 0.0500         | *****  | 0.0700           | 0.6081 |
| 0.1100         | *****  | 0.1200           | 0.6699 |
| 0.1700         | *****  | 0.1800           | 0.7132 |
| 0.2200         | *****  | 0.2100           | 0.7451 |
| 0.2700         | *****  | 0.2700           | 0.7917 |
| 0.3200         | *****  | 0.3100           | 0.8308 |
| 0.3600         | *****  | 0.3700           | 0.8647 |
| 0.4100         | *****  | 0.4200           | 0.8990 |
| 0.5100         | *****  | 0.5300           | 0.9585 |
| 0.7200         | *****  | 0.7300           | 1.0016 |
| 0.9100         | *****  | 0.9400           | 1.0014 |
| 1.1100         | *****  | 1.1500           | 0.9971 |
| 1.3000         | *****  | 1.3500           | 0.9945 |
| 1.5300         | *****  | 1.5500           | 1.0016 |
| 1.7400         | *****  | 1.7500           | 1.0005 |
| 1.9400         | *****  | 1.9500           | 1.0032 |
| 2.1400         | *****  | 2.1600           | 0.9996 |
| 2.3500         | *****  | 2.3700           | 1.0005 |
| 2.5500         | *****  | 2.5800           | 1.0000 |

\*\*\*\*\* - no data

Flight 35 Test point 24

Sweep, deg = 35.0 Mach = 0.70 hp, ft = 25100. Angle of attack, deg = 0.9  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 270.1 Rnpu = 2507000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     | none                        |
| Outboard station rake | 0.5874                                 | 0.1977                                  | 0.0697                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5883 |
| 0.0500         | *****  | 0.0700           | 0.6200 |
| 0.1100         | *****  | 0.1200           | 0.6815 |
| 0.1700         | *****  | 0.1800           | 0.7325 |
| 0.2200         | *****  | 0.2100           | 0.7630 |
| 0.2700         | *****  | 0.2700           | 0.8147 |
| 0.3200         | *****  | 0.3100           | 0.8543 |
| 0.3600         | *****  | 0.3700           | 0.8906 |
| 0.4100         | *****  | 0.4200           | 0.9230 |
| 0.5100         | *****  | 0.5300           | 0.9757 |
| 0.7200         | *****  | 0.7300           | 1.0034 |
| 0.9100         | *****  | 0.9400           | 1.0052 |
| 1.1100         | *****  | 1.1500           | 0.9989 |
| 1.3000         | *****  | 1.3500           | 0.9973 |
| 1.5300         | *****  | 1.5500           | 1.0043 |
| 1.7400         | *****  | 1.7500           | 1.0024 |
| 1.9400         | *****  | 1.9500           | 1.0048 |
| 2.1400         | *****  | 2.1600           | 1.0016 |
| 2.3500         | *****  | 2.3700           | 1.0038 |
| 2.5500         | *****  | 2.5800           | 1.0026 |

\*\*\*\*\* - no data

Flight 35 Test point 25

Sweep, deg = 35.0 Mach = 0.70 hp, ft = 24700. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 272.9 Rrho = 2531000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5927                                 | 0.1439                                  | 0.0726                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5828 |
| 0.0500         | *****  | 0.0700           | 0.6095 |
| 0.1100         | *****  | 0.1200           | 0.6741 |
| 0.1700         | *****  | 0.1800           | 0.7234 |
| 0.2200         | *****  | 0.2100           | 0.7528 |
| 0.2700         | *****  | 0.2700           | 0.8026 |
| 0.3200         | *****  | 0.3100           | 0.8428 |
| 0.3600         | *****  | 0.3700           | 0.8777 |
| 0.4100         | *****  | 0.4200           | 0.9122 |
| 0.5100         | *****  | 0.5300           | 0.9706 |
| 0.7200         | *****  | 0.7300           | 1.0031 |
| 0.9100         | *****  | 0.9400           | 1.0049 |
| 1.1100         | *****  | 1.1500           | 0.9992 |
| 1.3000         | *****  | 1.3500           | 0.9986 |
| 1.5300         | *****  | 1.5500           | 1.0050 |
| 1.7400         | *****  | 1.7500           | 1.0030 |
| 1.9400         | *****  | 1.9500           | 1.0053 |
| 2.1400         | *****  | 2.1600           | 1.0032 |
| 2.3500         | *****  | 2.3700           | 1.0029 |
| 2.5500         | *****  | 2.5800           | 1.0042 |

\*\*\*\*\* - no data



Flight 35 Test point 26

Sweep, deg = 31.2 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 2.1  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 270.7 Rnpu = 2509000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     | none                        |
| Outboard station rake | 0.5907                                 | 0.1489                                  | 0.0739                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5600 |
| 0.0500         | *****  | 0.0700           | 0.5985 |
| 0.1100         | *****  | 0.1200           | 0.6653 |
| 0.1700         | *****  | 0.1800           | 0.7101 |
| 0.2200         | *****  | 0.2100           | 0.7458 |
| 0.2700         | *****  | 0.2700           | 0.7937 |
| 0.3200         | *****  | 0.3100           | 0.8365 |
| 0.3600         | *****  | 0.3700           | 0.8720 |
| 0.4100         | *****  | 0.4200           | 0.9089 |
| 0.5100         | *****  | 0.5300           | 0.9709 |
| 0.7200         | *****  | 0.7300           | 1.0054 |
| 0.9100         | *****  | 0.9400           | 1.0052 |
| 1.1100         | *****  | 1.1500           | 0.9990 |
| 1.3000         | *****  | 1.3500           | 0.9985 |
| 1.5300         | *****  | 1.5500           | 1.0027 |
| 1.7400         | *****  | 1.7500           | 1.0026 |
| 1.9400         | *****  | 1.9500           | 1.0054 |
| 2.1400         | *****  | 2.1600           | 1.0028 |
| 2.3500         | *****  | 2.3700           | 1.0033 |
| 2.5500         | *****  | 2.5800           | 1.0042 |

\*\*\*\*\* - no data

Flight 35 Test point 27

Sweep, deg = 31.1 Mach = 0.70 hp, ft = 25800. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 260.1 Rrho = 2427000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     | none                        |
| Outboard station rake | 0.5718                                 | 0.1393                                  | 0.0695                              | none                        |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.5702             |
| 0.0500         | *****              | 0.0700           | 0.6099             |
| 0.1100         | *****              | 0.1200           | 0.6773             |
| 0.1700         | *****              | 0.1800           | 0.7249             |
| 0.2200         | *****              | 0.2100           | 0.7594             |
| 0.2700         | *****              | 0.2700           | 0.8087             |
| 0.3200         | *****              | 0.3100           | 0.8543             |
| 0.3600         | *****              | 0.3700           | 0.8898             |
| 0.4100         | *****              | 0.4200           | 0.9250             |
| 0.5100         | *****              | 0.5300           | 0.9810             |
| 0.7200         | *****              | 0.7300           | 1.0039             |
| 0.9100         | *****              | 0.9400           | 1.0025             |
| 1.1100         | *****              | 1.1500           | 0.9982             |
| 1.3000         | *****              | 1.3500           | 0.9957             |
| 1.5300         | *****              | 1.5500           | 1.0017             |
| 1.7400         | *****              | 1.7500           | 1.0024             |
| 1.9400         | *****              | 1.9500           | 1.0051             |
| 2.1400         | *****              | 2.1600           | 1.0027             |
| 2.3500         | *****              | 2.3700           | 1.0032             |
| 2.5500         | *****              | 2.5800           | 1.0036             |

\*\*\*\*\* - no data

Flight 35 Test point 28

Sweep, deg = 27.0 Mach = 0.70 hp, ft = 24900. Angle of attack, deg = 2.2  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 271.5 Rnpu = 2521000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.3798                        | 0.1037                         | 0.0464                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5173 |
| 0.0500         | *****  | 0.0700           | 0.6062 |
| 0.1100         | *****  | 0.1200           | 0.7113 |
| 0.1700         | *****  | 0.1800           | 0.7856 |
| 0.2200         | *****  | 0.2100           | 0.8426 |
| 0.2700         | *****  | 0.2700           | 0.9086 |
| 0.3200         | *****  | 0.3100           | 0.9574 |
| 0.3600         | *****  | 0.3700           | 0.9859 |
| 0.4100         | *****  | 0.4200           | 0.9984 |
| 0.5100         | *****  | 0.5300           | 1.0021 |
| 0.7200         | *****  | 0.7300           | 1.0036 |
| 0.9100         | *****  | 0.9400           | 1.0043 |
| 1.1100         | *****  | 1.1500           | 0.9986 |
| 1.3000         | *****  | 1.3500           | 0.9955 |
| 1.5300         | *****  | 1.5500           | 1.0018 |
| 1.7400         | *****  | 1.7500           | 1.0014 |
| 1.9400         | *****  | 1.9500           | 1.0038 |
| 2.1400         | *****  | 2.1600           | 1.0008 |
| 2.3500         | *****  | 2.3700           | 1.0011 |
| 2.5500         | *****  | 2.5800           | 1.0026 |

\*\*\*\*\* - no data

Flight 35 Test point 29

Sweep, deg = 27.0 Mach = 0.70 hp, ft = 25200. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 269.9 Rrho = 2503000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     | none                        |
| Outboard station rake | 0.3301                                 | 0.0871                                  | 0.0391                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5836 |
| 0.0500         | *****  | 0.0700           | 0.6556 |
| 0.1100         | *****  | 0.1200           | 0.7552 |
| 0.1700         | *****  | 0.1800           | 0.8327 |
| 0.2200         | *****  | 0.2100           | 0.8900 |
| 0.2700         | *****  | 0.2700           | 0.9462 |
| 0.3200         | *****  | 0.3100           | 0.9829 |
| 0.3600         | *****  | 0.3700           | 0.9962 |
| 0.4100         | *****  | 0.4200           | 1.0013 |
| 0.5100         | *****  | 0.5300           | 1.0036 |
| 0.7200         | *****  | 0.7300           | 1.0036 |
| 0.9100         | *****  | 0.9400           | 1.0041 |
| 1.1100         | *****  | 1.1500           | 0.9988 |
| 1.3000         | *****  | 1.3500           | 0.9948 |
| 1.5300         | *****  | 1.5500           | 1.0023 |
| 1.7400         | *****  | 1.7500           | 1.0020 |
| 1.9400         | *****  | 1.9500           | 1.0045 |
| 2.1400         | *****  | 2.1600           | 1.0023 |
| 2.3500         | *****  | 2.3700           | 1.0014 |
| 2.5500         | *****  | 2.5800           | 1.0022 |

\*\*\*\*\* - no data

Flight 35 Test point 30

Sweep, deg = 27.0 Mach = 0.70 hp, ft = 24800. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 273.9 Rrho = 2538000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.3264                        | 0.0901                         | 0.0399                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5596 |
| 0.0500         | *****  | 0.0700           | 0.6398 |
| 0.1100         | *****  | 0.1200           | 0.7455 |
| 0.1700         | *****  | 0.1800           | 0.8243 |
| 0.2200         | *****  | 0.2100           | 0.8824 |
| 0.2700         | *****  | 0.2700           | 0.9459 |
| 0.3200         | *****  | 0.3100           | 0.9850 |
| 0.3600         | *****  | 0.3700           | 0.9980 |
| 0.4100         | *****  | 0.4200           | 1.0002 |
| 0.5100         | *****  | 0.5300           | 1.0012 |
| 0.7200         | *****  | 0.7300           | 1.0015 |
| 0.9100         | *****  | 0.9400           | 1.0051 |
| 1.1100         | *****  | 1.1500           | 0.9975 |
| 1.3000         | *****  | 1.3500           | 0.9953 |
| 1.5300         | *****  | 1.5500           | 1.0009 |
| 1.7400         | *****  | 1.7500           | 1.0016 |
| 1.9400         | *****  | 1.9500           | 1.0056 |
| 2.1400         | *****  | 2.1600           | 1.0034 |
| 2.3500         | *****  | 2.3700           | 1.0017 |
| 2.5500         | *****  | 2.5800           | 1.0031 |

\*\*\*\*\* - no data

Flight 35 Test point 31

Sweep, deg = 21.3 Mach = 0.70 hp, ft = 25000. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 270.4 Rrho = 2513000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     | none                        |
| Outboard station rake | 0.3278                                 | 0.1165                                  | 0.0372                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.0966 |
| 0.0500         | *****  | 0.0700           | 0.4718 |
| 0.1100         | *****  | 0.1200           | 0.6897 |
| 0.1700         | *****  | 0.1800           | 0.8057 |
| 0.2200         | *****  | 0.2100           | 0.8751 |
| 0.2700         | *****  | 0.2700           | 0.9435 |
| 0.3200         | *****  | 0.3100           | 0.9834 |
| 0.3600         | *****  | 0.3700           | 0.9963 |
| 0.4100         | *****  | 0.4200           | 1.0007 |
| 0.5100         | *****  | 0.5300           | 1.0026 |
| 0.7200         | *****  | 0.7300           | 1.0024 |
| 0.9100         | *****  | 0.9400           | 1.0038 |
| 1.1100         | *****  | 1.1500           | 0.9972 |
| 1.3000         | *****  | 1.3500           | 0.9964 |
| 1.5300         | *****  | 1.5500           | 1.0033 |
| 1.7400         | *****  | 1.7500           | 1.0021 |
| 1.9400         | *****  | 1.9500           | 1.0040 |
| 2.1400         | *****  | 2.1600           | 1.0022 |
| 2.3500         | *****  | 2.3700           | 1.0027 |
| 2.5500         | *****  | 2.5800           | 1.0029 |

\*\*\*\*\* - no data

Flight 35 Test point 32

Sweep, deg = 21.3 Mach = 0.70 hp, ft = 25800. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 260.9 Rnpu = 2437000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.3001                        | 0.0918                         | 0.0351                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3621 |
| 0.0500         | *****  | 0.0700           | 0.5838 |
| 0.1100         | *****  | 0.1200           | 0.7575 |
| 0.1700         | *****  | 0.1800           | 0.8610 |
| 0.2200         | *****  | 0.2100           | 0.9218 |
| 0.2700         | *****  | 0.2700           | 0.9762 |
| 0.3200         | *****  | 0.3100           | 0.9980 |
| 0.3600         | *****  | 0.3700           | 0.9998 |
| 0.4100         | *****  | 0.4200           | 1.0015 |
| 0.5100         | *****  | 0.5300           | 1.0001 |
| 0.7200         | *****  | 0.7300           | 1.0026 |
| 0.9100         | *****  | 0.9400           | 1.0051 |
| 1.1100         | *****  | 1.1500           | 0.9993 |
| 1.3000         | *****  | 1.3500           | 0.9947 |
| 1.5300         | *****  | 1.5500           | 1.0040 |
| 1.7400         | *****  | 1.7500           | 1.0019 |
| 1.9400         | *****  | 1.9500           | 1.0055 |
| 2.1400         | *****  | 2.1600           | 1.0031 |
| 2.3500         | *****  | 2.3700           | 1.0034 |
| 2.5500         | *****  | 2.5800           | 1.0047 |

\*\*\*\*\* - no data

Flight 35 Test point 33

Sweep, deg = 21.3 Mach = 0.70 hp, ft = 25900. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = -0.3  $\bar{Q}$ BAR, lb/ft<sup>2</sup> = 261.2  $R_{\text{npu}}$  = 2434000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     | none                        |
| Outboard station rake | 0.2946                                 | 0.0838                                  | 0.0329                              | none                        |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.4279             |
| 0.0500         | *****              | 0.0700           | 0.6202             |
| 0.1100         | *****              | 0.1200           | 0.7826             |
| 0.1700         | *****              | 0.1800           | 0.8846             |
| 0.2200         | *****              | 0.2100           | 0.9392             |
| 0.2700         | *****              | 0.2700           | 0.9840             |
| 0.3200         | *****              | 0.3100           | 1.0014             |
| 0.3600         | *****              | 0.3700           | 0.9981             |
| 0.4100         | *****              | 0.4200           | 1.0004             |
| 0.5100         | *****              | 0.5300           | 1.0008             |
| 0.7200         | *****              | 0.7300           | 1.0029             |
| 0.9100         | *****              | 0.9400           | 1.0040             |
| 1.1100         | *****              | 1.1500           | 0.9985             |
| 1.3000         | *****              | 1.3500           | 0.9940             |
| 1.5300         | *****              | 1.5500           | 1.0001             |
| 1.7400         | *****              | 1.7500           | 1.0034             |
| 1.9400         | *****              | 1.9500           | 1.0044             |
| 2.1400         | *****              | 2.1600           | 1.0017             |
| 2.3500         | *****              | 2.3700           | 1.0028             |
| 2.5500         | *****              | 2.5800           | 1.0033             |

\*\*\*\*\* - no data



Flight 35 Test point 34

Sweep, deg = 21.3 Mach = 0.70 hp, ft = 26900. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.3 QBAR, lb/ft<sup>2</sup> = 250.8 Rrho = 2354000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.3258                        | 0.1129                         | 0.0373                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.1341 |
| 0.0500         | *****  | 0.0700           | 0.4935 |
| 0.1100         | *****  | 0.1200           | 0.6982 |
| 0.1700         | *****  | 0.1800           | 0.8123 |
| 0.2200         | *****  | 0.2100           | 0.8815 |
| 0.2700         | *****  | 0.2700           | 0.9486 |
| 0.3200         | *****  | 0.3100           | 0.9861 |
| 0.3600         | *****  | 0.3700           | 0.9973 |
| 0.4100         | *****  | 0.4200           | 0.9995 |
| 0.5100         | *****  | 0.5300           | 0.9999 |
| 0.7200         | *****  | 0.7300           | 1.0031 |
| 0.9100         | *****  | 0.9400           | 1.0042 |
| 1.1100         | *****  | 1.1500           | 0.9980 |
| 1.3000         | *****  | 1.3500           | 0.9959 |
| 1.5300         | *****  | 1.5500           | 1.0032 |
| 1.7400         | *****  | 1.7500           | 1.0026 |
| 1.9400         | *****  | 1.9500           | 1.0052 |
| 2.1400         | *****  | 2.1600           | 1.0017 |
| 2.3500         | *****  | 2.3700           | 1.0014 |
| 2.5500         | *****  | 2.5800           | 1.0018 |

\*\*\*\*\* - no data

Flight 35 Test point 35

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 30000. Angle of attack, deg = 1.8  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 250.1 Rnpu = 2242000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.6768                        | 0.1408                         | 0.0693                     | none                |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.4652             |
| 0.0500         | *****              | 0.0700           | 0.6208             |
| 0.1100         | *****              | 0.1200           | 0.7297             |
| 0.1700         | *****              | 0.1800           | 0.7853             |
| 0.2200         | *****              | 0.2100           | 0.8023             |
| 0.2700         | *****              | 0.2700           | 0.8398             |
| 0.3200         | *****              | 0.3100           | 0.8706             |
| 0.3600         | *****              | 0.3700           | 0.8905             |
| 0.4100         | *****              | 0.4200           | 0.9151             |
| 0.5100         | *****              | 0.5300           | 0.9603             |
| 0.7200         | *****              | 0.7300           | 1.0011             |
| 0.9100         | *****              | 0.9400           | 1.0064             |
| 1.1100         | *****              | 1.1500           | 0.9992             |
| 1.3000         | *****              | 1.3500           | 0.9990             |
| 1.5300         | *****              | 1.5500           | 1.0054             |
| 1.7400         | *****              | 1.7500           | 1.0034             |
| 1.9400         | *****              | 1.9500           | 1.0071             |
| 2.1400         | *****              | 2.1600           | 1.0050             |
| 2.3500         | *****              | 2.3700           | 1.0059             |
| 2.5500         | *****              | 2.5800           | 1.0071             |

\*\*\*\*\* - no data

Flight 35 Test point 36

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 30300. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -5.3 QBAR, lb/ft<sup>2</sup> = 244.6 Rnpu = 2202000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.6073                        | 0.1368                         | 0.0602                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4399 |
| 0.0500         | *****  | 0.0700           | 0.3950 |
| 0.1100         | *****  | 0.1200           | 0.6824 |
| 0.1700         | *****  | 0.1800           | 0.7917 |
| 0.2200         | *****  | 0.2100           | 0.8223 |
| 0.2700         | *****  | 0.2700           | 0.8692 |
| 0.3200         | *****  | 0.3100           | 0.9020 |
| 0.3600         | *****  | 0.3700           | 0.9245 |
| 0.4100         | *****  | 0.4200           | 0.9450 |
| 0.5100         | *****  | 0.5300           | 0.9794 |
| 0.7200         | *****  | 0.7300           | 1.0011 |
| 0.9100         | *****  | 0.9400           | 1.0050 |
| 1.1100         | *****  | 1.1500           | 0.9962 |
| 1.3000         | *****  | 1.3500           | 0.9955 |
| 1.5300         | *****  | 1.5500           | 1.0040 |
| 1.7400         | *****  | 1.7500           | 1.0027 |
| 1.9400         | *****  | 1.9500           | 1.0059 |
| 2.1400         | *****  | 2.1600           | 1.0010 |
| 2.3500         | *****  | 2.3700           | 1.0038 |
| 2.5500         | *****  | 2.5800           | 1.0054 |

\*\*\*\*\* - no data

Flight 35 Test point 37

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 30300. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 245.8 Rrho = 2213000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     | none                        |
| Outboard station rake | 0.4344                                 | 0.1163                                  | 0.0442                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.2278 |
| 0.0500         | *****  | 0.0700           | 0.5257 |
| 0.1100         | *****  | 0.1200           | 0.7123 |
| 0.1700         | *****  | 0.1800           | 0.8104 |
| 0.2200         | *****  | 0.2100           | 0.8618 |
| 0.2700         | *****  | 0.2700           | 0.9159 |
| 0.3200         | *****  | 0.3100           | 0.9523 |
| 0.3600         | *****  | 0.3700           | 0.9740 |
| 0.4100         | *****  | 0.4200           | 0.9878 |
| 0.5100         | *****  | 0.5300           | 1.0001 |
| 0.7200         | *****  | 0.7300           | 1.0028 |
| 0.9100         | *****  | 0.9400           | 1.0035 |
| 1.1100         | *****  | 1.1500           | 0.9975 |
| 1.3000         | *****  | 1.3500           | 0.9941 |
| 1.5300         | *****  | 1.5500           | 1.0023 |
| 1.7400         | *****  | 1.7500           | 1.0000 |
| 1.9400         | *****  | 1.9500           | 1.0047 |
| 2.1400         | *****  | 2.1600           | 1.0014 |
| 2.3500         | *****  | 2.3700           | 1.0015 |
| 2.5500         | *****  | 2.5800           | 1.0041 |

\*\*\*\*\* - no data

Flight 35 Test point 38

Sweep, deg = 20.0 Mach = 0.75 hp, ft = 30900. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -5.5 QBAR, lb/ft<sup>2</sup> = 238.4 Rrho = 2155000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.4281                        | 0.1284                         | 0.0478                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.6097 |
| 0.0500         | *****  | 0.0700           | 0.1949 |
| 0.1100         | *****  | 0.1200           | 0.5904 |
| 0.1700         | *****  | 0.1800           | 0.7551 |
| 0.2200         | *****  | 0.2100           | 0.8274 |
| 0.2700         | *****  | 0.2700           | 0.9004 |
| 0.3200         | *****  | 0.3100           | 0.9461 |
| 0.3600         | *****  | 0.3700           | 0.9714 |
| 0.4100         | *****  | 0.4200           | 0.9871 |
| 0.5100         | *****  | 0.5300           | 0.9991 |
| 0.7200         | *****  | 0.7300           | 1.0016 |
| 0.9100         | *****  | 0.9400           | 1.0044 |
| 1.1100         | *****  | 1.1500           | 0.9958 |
| 1.3000         | *****  | 1.3500           | 0.9942 |
| 1.5300         | *****  | 1.5500           | 1.0028 |
| 1.7400         | *****  | 1.7500           | 1.0022 |
| 1.9400         | *****  | 1.9500           | 1.0048 |
| 2.1400         | *****  | 2.1600           | 1.0021 |
| 2.3500         | *****  | 2.3700           | 1.0012 |
| 2.5500         | *****  | 2.5800           | 1.0047 |

\*\*\*\*\* - no data

Flight 35 Test point 39

Sweep, deg = 25.1 Mach = 0.75 hp, ft = 30000. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = 0.0  $\bar{C}$ BAR, lb/ft<sup>2</sup> = 250.1  $R_{\rho u}$  = 2245000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.4506                        | 0.1043                         | 0.0475                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5174 |
| 0.0500         | *****  | 0.0700           | 0.6312 |
| 0.1100         | *****  | 0.1200           | 0.7410 |
| 0.1700         | *****  | 0.1800           | 0.8138 |
| 0.2200         | *****  | 0.2100           | 0.8543 |
| 0.2700         | *****  | 0.2700           | 0.9043 |
| 0.3200         | *****  | 0.3100           | 0.9399 |
| 0.3600         | *****  | 0.3700           | 0.9644 |
| 0.4100         | *****  | 0.4200           | 0.9826 |
| 0.5100         | *****  | 0.5300           | 1.0013 |
| 0.7200         | *****  | 0.7300           | 1.0037 |
| 0.9100         | *****  | 0.9400           | 1.0046 |
| 1.1100         | *****  | 1.1500           | 0.9995 |
| 1.3000         | *****  | 1.3500           | 0.9965 |
| 1.5300         | *****  | 1.5500           | 1.0037 |
| 1.7400         | *****  | 1.7500           | 0.9999 |
| 1.9400         | *****  | 1.9500           | 1.0042 |
| 2.1400         | *****  | 2.1600           | 1.0012 |
| 2.3500         | *****  | 2.3700           | 1.0005 |
| 2.5500         | *****  | 2.5800           | 1.0023 |

\*\*\*\*\* - no data

Flight 35 Test point 40

Sweep, deg = 25.1 Mach = 0.75 hp, ft = 30000. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 248.2 Rrho = 2234000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     | none                        |
| Outboard station rake | 0.3240                                 | 0.0905                                  | 0.0383                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5117 |
| 0.0500         | *****  | 0.0700           | 0.6234 |
| 0.1100         | *****  | 0.1200           | 0.7508 |
| 0.1700         | *****  | 0.1800           | 0.8385 |
| 0.2200         | *****  | 0.2100           | 0.8971 |
| 0.2700         | *****  | 0.2700           | 0.9563 |
| 0.3200         | *****  | 0.3100           | 0.9892 |
| 0.3600         | *****  | 0.3700           | 0.9964 |
| 0.4100         | *****  | 0.4200           | 1.0003 |
| 0.5100         | *****  | 0.5300           | 1.0023 |
| 0.7200         | *****  | 0.7300           | 1.0035 |
| 0.9100         | *****  | 0.9400           | 1.0020 |
| 1.1100         | *****  | 1.1500           | 0.9971 |
| 1.3000         | *****  | 1.3500           | 0.9955 |
| 1.5300         | *****  | 1.5500           | 1.0011 |
| 1.7400         | *****  | 1.7500           | 1.0019 |
| 1.9400         | *****  | 1.9500           | 1.0036 |
| 2.1400         | *****  | 2.1600           | 0.9997 |
| 2.3500         | *****  | 2.3700           | 1.0025 |
| 2.5500         | *****  | 2.5800           | 1.0050 |

\*\*\*\*\* - no data

Flight 35 Test point 41

Sweep, deg = 30.5 Mach = 0.75 hp, ft = 30000. Angle of attack, deg = 1.9  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 248.9 Rrho = 2240000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.4968                        | 0.1320                         | 0.0610                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0200         | *****  | 0.0400           | 0.5213 |
| 0.0500         | *****  | 0.0700           | 0.5782 |
| 0.1100         | *****  | 0.1200           | 0.6659 |
| 0.1700         | *****  | 0.1800           | 0.7323 |
| 0.2200         | *****  | 0.2100           | 0.7764 |
| 0.2700         | *****  | 0.2700           | 0.8392 |
| 0.3200         | *****  | 0.3100           | 0.8897 |
| 0.3600         | *****  | 0.3700           | 0.9260 |
| 0.4100         | *****  | 0.4200           | 0.9571 |
| 0.5100         | *****  | 0.5300           | 0.9921 |
| 0.7200         | *****  | 0.7300           | 1.0027 |
| 0.9100         | *****  | 0.9400           | 1.0048 |
| 1.1100         | *****  | 1.1500           | 0.9970 |
| 1.3000         | *****  | 1.3500           | 0.9950 |
| 1.5300         | *****  | 1.5500           | 1.0025 |
| 1.7400         | *****  | 1.7500           | 0.9999 |
| 1.9400         | *****  | 1.9500           | 1.0026 |
| 2.1400         | *****  | 2.1600           | 1.0010 |
| 2.3500         | *****  | 2.3700           | 1.0018 |
| 2.5500         | *****  | 2.5800           | 1.0006 |

\*\*\*\*\* - no data



Flight 35 Test point 42

Sweep, deg = 30.5 Mach = 0.75 hp, ft = 30000. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 248.2 Rnpu = 2236000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.4651                        | 0.1319                         | 0.0605                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5202 |
| 0.0500         | *****  | 0.0700           | 0.5723 |
| 0.1100         | *****  | 0.1200           | 0.6578 |
| 0.1700         | *****  | 0.1800           | 0.7175 |
| 0.2200         | *****  | 0.2100           | 0.7658 |
| 0.2700         | *****  | 0.2700           | 0.8323 |
| 0.3200         | *****  | 0.3100           | 0.8874 |
| 0.3600         | *****  | 0.3700           | 0.9315 |
| 0.4100         | *****  | 0.4200           | 0.9689 |
| 0.5100         | *****  | 0.5300           | 1.0020 |
| 0.7200         | *****  | 0.7300           | 1.0044 |
| 0.9100         | *****  | 0.9400           | 1.0054 |
| 1.1100         | *****  | 1.1500           | 0.9978 |
| 1.3000         | *****  | 1.3500           | 0.9962 |
| 1.5300         | *****  | 1.5500           | 1.0037 |
| 1.7400         | *****  | 1.7500           | 1.0030 |
| 1.9400         | *****  | 1.9500           | 1.0062 |
| 2.1400         | *****  | 2.1600           | 1.0040 |
| 2.3500         | *****  | 2.3700           | 1.0031 |
| 2.5500         | *****  | 2.5800           | 1.0054 |

\*\*\*\*\* - no data

Flight 35 Test point 43

Sweep, deg = 30.4 Mach = 0.75 hp, ft = 29700. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 250.1 Rnpu = 2254000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.4779                        | 0.1233                         | 0.0569                     | none                |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.5355             |
| 0.0500         | *****              | 0.0700           | 0.5944             |
| 0.1100         | *****              | 0.1200           | 0.6793             |
| 0.1700         | *****              | 0.1800           | 0.7465             |
| 0.2200         | *****              | 0.2100           | 0.7951             |
| 0.2700         | *****              | 0.2700           | 0.8585             |
| 0.3200         | *****              | 0.3100           | 0.9067             |
| 0.3600         | *****              | 0.3700           | 0.9431             |
| 0.4100         | *****              | 0.4200           | 0.9714             |
| 0.5100         | *****              | 0.5300           | 0.9994             |
| 0.7200         | *****              | 0.7300           | 1.0040             |
| 0.9100         | *****              | 0.9400           | 1.0068             |
| 1.1100         | *****              | 1.1500           | 0.9981             |
| 1.3000         | *****              | 1.3500           | 0.9953             |
| 1.5300         | *****              | 1.5500           | 1.0040             |
| 1.7400         | *****              | 1.7500           | 1.0027             |
| 1.9400         | *****              | 1.9500           | 1.0078             |
| 2.1400         | *****              | 2.1600           | 1.0026             |
| 2.3500         | *****              | 2.3700           | 1.0030             |
| 2.5500         | *****              | 2.5800           | 1.0049             |

\*\*\*\*\* - no data

Flight 35 Test point 44

Sweep, deg = 30.4 Mach = 0.80 hp, ft = 30000. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 283.6 Rrho = 2412000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7248                        | 0.2860                         | 0.1021                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.2154 |
| 0.0500         | *****  | 0.0700           | 0.2715 |
| 0.1100         | *****  | 0.1200           | 0.3686 |
| 0.1700         | *****  | 0.1800           | 0.4209 |
| 0.2200         | *****  | 0.2100           | 0.4566 |
| 0.2700         | *****  | 0.2700           | 0.5408 |
| 0.3200         | *****  | 0.3100           | 0.6150 |
| 0.3600         | *****  | 0.3700           | 0.6866 |
| 0.4100         | *****  | 0.4200           | 0.7622 |
| 0.5100         | *****  | 0.5300           | 0.8934 |
| 0.7200         | *****  | 0.7300           | 1.0026 |
| 0.9100         | *****  | 0.9400           | 1.0064 |
| 1.1100         | *****  | 1.1500           | 0.9996 |
| 1.3000         | *****  | 1.3500           | 0.9984 |
| 1.5300         | *****  | 1.5500           | 1.0031 |
| 1.7400         | *****  | 1.7500           | 1.0013 |
| 1.9400         | *****  | 1.9500           | 1.0036 |
| 2.1400         | *****  | 2.1600           | 0.9965 |
| 2.3500         | *****  | 2.3700           | 0.9947 |
| 2.5500         | *****  | 2.5800           | 0.9963 |

\*\*\*\*\* - no data

Flight 35 Test point 45

Sweep, deg = 30.4 Mach = 0.81 hp, ft = 30200. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 281.9 Rrho = 2397000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   | *****                                  | *****                                   | *****                               | none                        |
| Outboard station rake | 0.7183                                 | 0.2224                                  | 0.0941                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3652 |
| 0.0500         | *****  | 0.0700           | 0.4231 |
| 0.1100         | *****  | 0.1200           | 0.4977 |
| 0.1700         | *****  | 0.1800           | 0.5546 |
| 0.2200         | *****  | 0.2100           | 0.5979 |
| 0.2700         | *****  | 0.2700           | 0.6629 |
| 0.3200         | *****  | 0.3100           | 0.7237 |
| 0.3600         | *****  | 0.3700           | 0.7784 |
| 0.4100         | *****  | 0.4200           | 0.8377 |
| 0.5100         | *****  | 0.5300           | 0.9420 |
| 0.7200         | *****  | 0.7300           | 1.0032 |
| 0.9100         | *****  | 0.9400           | 1.0051 |
| 1.1100         | *****  | 1.1500           | 0.9976 |
| 1.3000         | *****  | 1.3500           | 0.9974 |
| 1.5300         | *****  | 1.5500           | 1.0022 |
| 1.7400         | *****  | 1.7500           | 1.0000 |
| 1.9400         | *****  | 1.9500           | 1.0029 |
| 2.1400         | *****  | 2.1600           | 0.9971 |
| 2.3500         | *****  | 2.3700           | 0.9967 |
| 2.5500         | *****  | 2.5800           | 0.9979 |

\*\*\*\*\* - no data

Flight 35 Test point 46

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 29900. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 281.0 Rnpu = 2402000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.4321                                 | 0.1809                                  | 0.0544                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3456 |
| 0.0500         | *****  | 0.0700           | 0.1892 |
| 0.1100         | *****  | 0.1200           | 0.3984 |
| 0.1700         | *****  | 0.1800           | 0.5640 |
| 0.2200         | *****  | 0.2100           | 0.6816 |
| 0.2700         | *****  | 0.2700           | 0.8053 |
| 0.3200         | *****  | 0.3100           | 0.8945 |
| 0.3600         | *****  | 0.3700           | 0.9619 |
| 0.4100         | *****  | 0.4200           | 0.9929 |
| 0.5100         | *****  | 0.5300           | 1.0021 |
| 0.7200         | *****  | 0.7300           | 1.0034 |
| 0.9100         | *****  | 0.9400           | 1.0037 |
| 1.1100         | *****  | 1.1500           | 0.9995 |
| 1.3000         | *****  | 1.3500           | 0.9994 |
| 1.5300         | *****  | 1.5500           | 1.0035 |
| 1.7400         | *****  | 1.7500           | 1.0019 |
| 1.9400         | *****  | 1.9500           | 1.0016 |
| 2.1400         | *****  | 2.1600           | 0.9972 |
| 2.3500         | *****  | 2.3700           | 0.9974 |
| 2.5500         | *****  | 2.5800           | 0.9974 |

\*\*\*\*\* - no data

Flight 35 Test point 47

Sweep, deg = 25.4 Mach = 0.80 hp, ft = 30100. Angle of attack, deg = 0.4  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 280.5 Rrho = 2394000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5336                        | 0.2226                         | 0.0717                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4171 |
| 0.0500         | *****  | 0.0700           | 0.3281 |
| 0.1100         | *****  | 0.1200           | 0.2581 |
| 0.1700         | *****  | 0.1800           | 0.4442 |
| 0.2200         | *****  | 0.2100           | 0.5495 |
| 0.2700         | *****  | 0.2700           | 0.6721 |
| 0.3200         | *****  | 0.3100           | 0.7667 |
| 0.3600         | *****  | 0.3700           | 0.8545 |
| 0.4100         | *****  | 0.4200           | 0.9243 |
| 0.5100         | *****  | 0.5300           | 0.9978 |
| 0.7200         | *****  | 0.7300           | 1.0030 |
| 0.9100         | *****  | 0.9400           | 1.0034 |
| 1.1100         | *****  | 1.1500           | 0.9987 |
| 1.3000         | *****  | 1.3500           | 0.9976 |
| 1.5300         | *****  | 1.5500           | 1.0018 |
| 1.7400         | *****  | 1.7500           | 1.0013 |
| 1.9400         | *****  | 1.9500           | 1.0024 |
| 2.1400         | *****  | 2.1600           | 0.9997 |
| 2.3500         | *****  | 2.3700           | 0.9964 |
| 2.5500         | *****  | 2.5800           | 0.9979 |

\*\*\*\*\* - no data

Flight 35 Test point 48

Sweep, deg = 20.1 Mach = 0.80 hp, ft = 30000. Angle of attack, deg = 0.5  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 281.8 Rnpu = 2403000.

|                       | Boundary layer height, In. | Displacement thickness, In. | Momentum thickness, In. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | *****                      | *****                       | *****                   | none             |
| Outboard station rake | 0.4511                     | 0.1980                      | 0.0591                  | none             |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, In.         | U/Umax | Y, In.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5312 |
| 0.0500         | *****  | 0.0700           | 0.4996 |
| 0.1100         | *****  | 0.1200           | 0.1723 |
| 0.1700         | *****  | 0.1800           | 0.4084 |
| 0.2200         | *****  | 0.2100           | 0.5813 |
| 0.2700         | *****  | 0.2700           | 0.7429 |
| 0.3200         | *****  | 0.3100           | 0.8512 |
| 0.3600         | *****  | 0.3700           | 0.9291 |
| 0.4100         | *****  | 0.4200           | 0.9738 |
| 0.5100         | *****  | 0.5300           | 1.0015 |
| 0.7200         | *****  | 0.7300           | 1.0054 |
| 0.9100         | *****  | 0.9400           | 1.0067 |
| 1.1100         | *****  | 1.1500           | 1.0038 |
| 1.3000         | *****  | 1.3500           | 1.0013 |
| 1.5300         | *****  | 1.5500           | 1.0047 |
| 1.7400         | *****  | 1.7500           | 1.0022 |
| 1.9400         | *****  | 1.9500           | 1.0029 |
| 2.1400         | *****  | 2.1600           | 0.9989 |
| 2.3500         | *****  | 2.3700           | 0.9993 |
| 2.5500         | *****  | 2.5800           | 0.9995 |

\*\*\*\*\* - no data

Flight 35 Test point 49

Sweep, deg = 20.1 Mach = 0.80 hp, ft = 30000. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = -5.1 QBAR, lb/ft<sup>2</sup> = 280.6 Rnpu = 2395000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5552                        | 0.2293                         | 0.0730                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5858 |
| 0.0500         | *****  | 0.0700           | 0.5670 |
| 0.1100         | *****  | 0.1200           | 0.3158 |
| 0.1700         | *****  | 0.1800           | 0.2320 |
| 0.2200         | *****  | 0.2100           | 0.4355 |
| 0.2700         | *****  | 0.2700           | 0.6246 |
| 0.3200         | *****  | 0.3100           | 0.7445 |
| 0.3600         | *****  | 0.3700           | 0.8442 |
| 0.4100         | *****  | 0.4200           | 0.9125 |
| 0.5100         | *****  | 0.5300           | 0.9849 |
| 0.7200         | *****  | 0.7300           | 1.0033 |
| 0.9100         | *****  | 0.9400           | 1.0048 |
| 1.1100         | *****  | 1.1500           | 1.0014 |
| 1.3000         | *****  | 1.3500           | 1.0004 |
| 1.5300         | *****  | 1.5500           | 1.0040 |
| 1.7400         | *****  | 1.7500           | 1.0023 |
| 1.9400         | *****  | 1.9500           | 1.0011 |
| 2.1400         | *****  | 2.1600           | 0.9995 |
| 2.3500         | *****  | 2.3700           | 0.9994 |
| 2.5500         | *****  | 2.5800           | 0.9990 |

\*\*\*\*\* - no data



Flight 35 Test point 50

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 30200. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 280.3 Rnpu = 2391000.

|                       | Boundary layer height, in. | Displacement thickness, in. | Momentum thickness, in. | Transition strip |
|-----------------------|----------------------------|-----------------------------|-------------------------|------------------|
| Middle station rake   | *****                      | *****                       | *****                   | none             |
| Outboard station rake | 0.4552                     | 0.1971                      | 0.0598                  | none             |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.5418             |
| 0.0500         | *****              | 0.0700           | 0.5101             |
| 0.1100         | *****              | 0.1200           | 0.1961             |
| 0.1700         | *****              | 0.1800           | 0.3939             |
| 0.2200         | *****              | 0.2100           | 0.5770             |
| 0.2700         | *****              | 0.2700           | 0.7398             |
| 0.3200         | *****              | 0.3100           | 0.8515             |
| 0.3600         | *****              | 0.3700           | 0.9312             |
| 0.4100         | *****              | 0.4200           | 0.9727             |
| 0.5100         | *****              | 0.5300           | 1.0017             |
| 0.7200         | *****              | 0.7300           | 1.0059             |
| 0.9100         | *****              | 0.9400           | 1.0079             |
| 1.1100         | *****              | 1.1500           | 1.0027             |
| 1.3000         | *****              | 1.3500           | 1.0007             |
| 1.5300         | *****              | 1.5500           | 1.0049             |
| 1.7400         | *****              | 1.7500           | 1.0034             |
| 1.9400         | *****              | 1.9500           | 1.0025             |
| 2.1400         | *****              | 2.1600           | 0.9996             |
| 2.3500         | *****              | 2.3700           | 1.0002             |
| 2.5500         | *****              | 2.5800           | 0.9979             |

\*\*\*\*\* - no data

Flight 35 Test point 5'

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 30000. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = -0.4 QBAR, lb/ft<sup>2</sup> = 283.9 Rrho = 2412000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     | none                        |
| Outboard station rake | 0.5396                                 | 0.2211                                  | 0.0635                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4274 |
| 0.0500         | *****  | 0.0700           | 0.3894 |
| 0.1100         | *****  | 0.1200           | 0.1860 |
| 0.1700         | *****  | 0.1800           | 0.4217 |
| 0.2200         | *****  | 0.2100           | 0.5604 |
| 0.2700         | *****  | 0.2700           | 0.7052 |
| 0.3200         | *****  | 0.3100           | 0.8092 |
| 0.3600         | *****  | 0.3700           | 0.8943 |
| 0.4100         | *****  | 0.4200           | 0.9485 |
| 0.5100         | *****  | 0.5300           | 0.9962 |
| 0.7200         | *****  | 0.7300           | 1.0048 |
| 0.9100         | *****  | 0.9400           | 1.0051 |
| 1.1100         | *****  | 1.1500           | 1.0018 |
| 1.3000         | *****  | 1.3500           | 0.9998 |
| 1.5300         | *****  | 1.5500           | 1.0034 |
| 1.7400         | *****  | 1.7500           | 1.0018 |
| 1.9400         | *****  | 1.9500           | 1.0008 |
| 2.1400         | *****  | 2.1600           | 0.9965 |
| 2.3500         | *****  | 2.3700           | 0.9948 |
| 2.5500         | *****  | 2.5800           | 0.9949 |

\*\*\*\*\* - no data

Flight 35 Test point 52

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 29500. Angle of attack, deg = 1.7  
 Angle of sideslip, deg = -5.2 QBAR, lb/ft<sup>2</sup> = 289.7 Rrho = 2450000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5539                        | 0.2329                         | 0.0725                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5750 |
| 0.0500         | *****  | 0.0700           | 0.5571 |
| 0.1100         | *****  | 0.1200           | 0.3039 |
| 0.1700         | *****  | 0.1800           | 0.2299 |
| 0.2200         | *****  | 0.2100           | 0.4322 |
| 0.2700         | *****  | 0.2700           | 0.6162 |
| 0.3200         | *****  | 0.3100           | 0.7376 |
| 0.3600         | *****  | 0.3700           | 0.8424 |
| 0.4100         | *****  | 0.4200           | 0.9125 |
| 0.5100         | *****  | 0.5300           | 0.9855 |
| 0.7200         | *****  | 0.7300           | 1.0036 |
| 0.9100         | *****  | 0.9400           | 1.0052 |
| 1.1100         | *****  | 1.1500           | 1.0024 |
| 1.3000         | *****  | 1.3500           | 1.0003 |
| 1.5300         | *****  | 1.5500           | 1.0044 |
| 1.7400         | *****  | 1.7500           | 1.0022 |
| 1.9400         | *****  | 1.9500           | 1.0020 |
| 2.1400         | *****  | 2.1600           | 0.9992 |
| 2.3500         | *****  | 2.3700           | 0.9973 |
| 2.5500         | *****  | 2.5800           | 0.9980 |

\*\*\*\*\* - no data

Flight 35 Test point 53

Sweep, deg = 20.0 Mach = 0.81 hp, ft = 35000. Angle of attack, deg = 1.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 225.8 Rrho = 1994000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5405                        | 0.2228                         | 0.0636                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3992 |
| 0.0500         | *****  | 0.0700           | 0.3648 |
| 0.1100         | *****  | 0.1200           | 0.2056 |
| 0.1700         | *****  | 0.1800           | 0.4287 |
| 0.2200         | *****  | 0.2100           | 0.5626 |
| 0.2700         | *****  | 0.2700           | 0.7039 |
| 0.3200         | *****  | 0.3100           | 0.8098 |
| 0.3600         | *****  | 0.3700           | 0.8928 |
| 0.4100         | *****  | 0.4200           | 0.9466 |
| 0.5100         | *****  | 0.5300           | 0.9958 |
| 0.7200         | *****  | 0.7300           | 1.0040 |
| 0.9100         | *****  | 0.9400           | 1.0060 |
| 1.1100         | *****  | 1.1500           | 1.0014 |
| 1.3000         | *****  | 1.3500           | 0.9987 |
| 1.5300         | *****  | 1.5500           | 1.0030 |
| 1.7400         | *****  | 1.7500           | 1.0011 |
| 1.9400         | *****  | 1.9500           | 1.0009 |
| 2.1400         | *****  | 2.1600           | 0.9972 |
| 2.3500         | *****  | 2.3700           | 0.9964 |
| 2.5500         | *****  | 2.5800           | 0.9955 |

\*\*\*\*\* - no data

Flight 35 Test point 54

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 34800. Angle of attack, deg = 2.3  
 Angle of sideslip, deg = -5.2 QBAR, lb/ft<sup>2</sup> = 222.9 Rrho = 1983000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.6975                        | 0.2474                         | 0.0747                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.5577 |
| 0.0500         | *****  | 0.0700           | 0.5388 |
| 0.1100         | *****  | 0.1200           | 0.2942 |
| 0.1700         | *****  | 0.1800           | 0.1826 |
| 0.2200         | *****  | 0.2100           | 0.4017 |
| 0.2700         | *****  | 0.2700           | 0.5896 |
| 0.3200         | *****  | 0.3100           | 0.7181 |
| 0.3600         | *****  | 0.3700           | 0.8199 |
| 0.4100         | *****  | 0.4200           | 0.8960 |
| 0.5100         | *****  | 0.5300           | 0.9788 |
| 0.7200         | *****  | 0.7300           | 1.0036 |
| 0.9100         | *****  | 0.9400           | 1.0064 |
| 1.1100         | *****  | 1.1500           | 0.9999 |
| 1.3000         | *****  | 1.3500           | 0.9980 |
| 1.5300         | *****  | 1.5500           | 1.0018 |
| 1.7400         | *****  | 1.7500           | 1.0006 |
| 1.9400         | *****  | 1.9500           | 1.0012 |
| 2.1400         | *****  | 2.1600           | 0.9972 |
| 2.3500         | *****  | 2.3700           | 0.9956 |
| 2.5500         | *****  | 2.5800           | 0.9959 |

\*\*\*\*\* - no data

Flight 35 Test point 55

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 35800. Angle of attack, deg = 0.6  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 215.1 Rrho = 1914000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     | none                        |
| Outboard station rake | 0.4567                                 | 0.2059                                  | 0.0607                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4342 |
| 0.0500         | *****  | 0.0700           | 0.4067 |
| 0.1100         | *****  | 0.1200           | 0.2120 |
| 0.1700         | *****  | 0.1800           | 0.4507 |
| 0.2200         | *****  | 0.2100           | 0.5825 |
| 0.2700         | *****  | 0.2700           | 0.7324 |
| 0.3200         | *****  | 0.3100           | 0.8361 |
| 0.3600         | *****  | 0.3700           | 0.9167 |
| 0.4100         | *****  | 0.4200           | 0.9660 |
| 0.5100         | *****  | 0.5300           | 1.0016 |
| 0.7200         | *****  | 0.7300           | 1.0057 |
| 0.9100         | *****  | 0.9400           | 1.0072 |
| 1.1100         | *****  | 1.1500           | 1.0019 |
| 1.3000         | *****  | 1.3500           | 0.9998 |
| 1.5300         | *****  | 1.5500           | 1.0057 |
| 1.7400         | *****  | 1.7500           | 1.0046 |
| 1.9400         | *****  | 1.9500           | 1.0053 |
| 2.1400         | *****  | 2.1600           | 1.0014 |
| 2.3500         | *****  | 2.3700           | 1.0003 |
| 2.5500         | *****  | 2.5800           | 1.0006 |

\*\*\*\*\* - no data

Flight 35 Test point 56

Sweep, deg = 20.0 Mach = 0.80 hp, ft = 36100. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 212.1 Rrho = 1892000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5418                        | 0.2240                         | 0.0649                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4046 |
| 0.0500         | *****  | 0.0700           | 0.3767 |
| 0.1100         | *****  | 0.1200           | 0.2133 |
| 0.1700         | *****  | 0.1800           | 0.4299 |
| 0.2200         | *****  | 0.2100           | 0.5530 |
| 0.2700         | *****  | 0.2700           | 0.6952 |
| 0.3200         | *****  | 0.3100           | 0.7984 |
| 0.3600         | *****  | 0.3700           | 0.8875 |
| 0.4100         | *****  | 0.4200           | 0.9433 |
| 0.5100         | *****  | 0.5300           | 0.9950 |
| 0.7200         | *****  | 0.7300           | 1.0040 |
| 0.9100         | *****  | 0.9400           | 1.0051 |
| 1.1100         | *****  | 1.1500           | 1.0009 |
| 1.3000         | *****  | 1.3500           | 0.9985 |
| 1.5300         | *****  | 1.5500           | 1.0038 |
| 1.7400         | *****  | 1.7500           | 1.0005 |
| 1.9400         | *****  | 1.9500           | 1.0022 |
| 2.1400         | *****  | 2.1600           | 0.9964 |
| 2.3500         | *****  | 2.3700           | 0.9964 |
| 2.5500         | *****  | 2.5800           | 0.9973 |

\*\*\*\*\* - no data

Flight 35 Test point 57

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 223.2 Rrho = 1982000.

|                       | Boundary layer<br>height, In. | Displacement<br>thickness, In. | Momentum<br>thickness, In. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.4406                        | 0.1953                         | 0.0551                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, In.         | U/Umax | Y, In.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3014 |
| 0.0500         | *****  | 0.0700           | 0.2230 |
| 0.1100         | *****  | 0.1200           | 0.3639 |
| 0.1700         | *****  | 0.1800           | 0.5165 |
| 0.2200         | *****  | 0.2100           | 0.6313 |
| 0.2700         | *****  | 0.2700           | 0.7650 |
| 0.3200         | *****  | 0.3100           | 0.8805 |
| 0.3600         | *****  | 0.3700           | 0.9555 |
| 0.4100         | *****  | 0.4200           | 0.9876 |
| 0.5100         | *****  | 0.5300           | 1.0034 |
| 0.7200         | *****  | 0.7300           | 1.0040 |
| 0.9100         | *****  | 0.9400           | 1.0059 |
| 1.1100         | *****  | 1.1500           | 1.0015 |
| 1.3000         | *****  | 1.3500           | 0.9988 |
| 1.5300         | *****  | 1.5500           | 1.0029 |
| 1.7400         | *****  | 1.7500           | 1.0017 |
| 1.9400         | *****  | 1.9500           | 1.0023 |
| 2.1400         | *****  | 2.1600           | 0.9982 |
| 2.3500         | *****  | 2.3700           | 0.9969 |
| 2.5500         | *****  | 2.5800           | 0.9970 |

\*\*\*\*\* - no data



Flight 35 Test point 58

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 35800. Angle of attack, deg = 0.8  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 214.7 Rrho = 1910000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.4619                                 | 0.1871                                  | 0.0597                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3949 |
| 0.0500         | *****  | 0.0700           | 0.2884 |
| 0.1100         | *****  | 0.1200           | 0.3725 |
| 0.1700         | *****  | 0.1800           | 0.5448 |
| 0.2200         | *****  | 0.2100           | 0.6444 |
| 0.2700         | *****  | 0.2700           | 0.7752 |
| 0.3200         | *****  | 0.3100           | 0.8731 |
| 0.3600         | *****  | 0.3700           | 0.9429 |
| 0.4100         | *****  | 0.4200           | 0.9751 |
| 0.5100         | *****  | 0.5300           | 1.0036 |
| 0.7200         | *****  | 0.7300           | 1.0064 |
| 0.9100         | *****  | 0.9400           | 1.0081 |
| 1.1100         | *****  | 1.1500           | 1.0022 |
| 1.3000         | *****  | 1.3500           | 0.9986 |
| 1.5300         | *****  | 1.5500           | 1.0041 |
| 1.7400         | *****  | 1.7500           | 1.0002 |
| 1.9400         | *****  | 1.9500           | 1.0026 |
| 2.1400         | *****  | 2.1600           | 0.9998 |
| 2.3500         | *****  | 2.3700           | 0.9990 |
| 2.5500         | *****  | 2.5800           | 1.0004 |

\*\*\*\*\* - no data

Flight 35 Test point 59

Sweep, deg = 25.3 Mach = 0.80 hp, ft = 36100. Angle of attack, deg = 1.4  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 212.2 Rrho = 1885000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.4406                        | 0.2020                         | 0.0566                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3683 |
| 0.0500         | *****  | 0.0700           | 0.3276 |
| 0.1100         | *****  | 0.1200           | 0.2521 |
| 0.1700         | *****  | 0.1800           | 0.4660 |
| 0.2200         | *****  | 0.2100           | 0.5994 |
| 0.2700         | *****  | 0.2700           | 0.7503 |
| 0.3200         | *****  | 0.3100           | 0.8622 |
| 0.3600         | *****  | 0.3700           | 0.9465 |
| 0.4100         | *****  | 0.4200           | 0.9850 |
| 0.5100         | *****  | 0.5300           | 1.0036 |
| 0.7200         | *****  | 0.7300           | 1.0056 |
| 0.9100         | *****  | 0.9400           | 1.0066 |
| 1.1100         | *****  | 1.1500           | 1.0010 |
| 1.3000         | *****  | 1.3500           | 1.0002 |
| 1.5300         | *****  | 1.5500           | 1.0048 |
| 1.7400         | *****  | 1.7500           | 1.0011 |
| 1.9400         | *****  | 1.9500           | 1.0015 |
| 2.1400         | *****  | 2.1600           | 0.9970 |
| 2.3500         | *****  | 2.3700           | 0.9961 |
| 2.5500         | *****  | 2.5800           | 0.9976 |

\*\*\*\*\* - no data

Flight 35 Test point 60

Sweep, deg = 30.0 Mach = 0.80 hp, ft = 34800. Angle of attack, deg = 2.3  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 224.0 Rho = 1979000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     | none                        |
| Outboard station rake | 0.4117                                 | 0.1565                                  | 0.0562                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.3033 |
| 0.0500         | *****  | 0.0700           | 0.3739 |
| 0.1100         | *****  | 0.1200           | 0.5012 |
| 0.1700         | *****  | 0.1800           | 0.6127 |
| 0.2200         | *****  | 0.2100           | 0.7153 |
| 0.2700         | *****  | 0.2700           | 0.8357 |
| 0.3200         | *****  | 0.3100           | 0.9255 |
| 0.3600         | *****  | 0.3700           | 0.9713 |
| 0.4100         | *****  | 0.4200           | 0.9971 |
| 0.5100         | *****  | 0.5300           | 1.0101 |
| 0.7200         | *****  | 0.7300           | 1.0139 |
| 0.9100         | *****  | 0.9400           | 1.0114 |
| 1.1100         | *****  | 1.1500           | 0.9950 |
| 1.3000         | *****  | 1.3500           | 0.9897 |
| 1.5300         | *****  | 1.5500           | 0.9966 |
| 1.7400         | *****  | 1.7500           | 0.9938 |
| 1.9400         | *****  | 1.9500           | 0.9979 |
| 2.1400         | *****  | 2.1600           | 0.9955 |
| 2.3500         | *****  | 2.3700           | 0.9982 |
| 2.5500         | *****  | 2.5800           | 1.0009 |

\*\*\*\*\* - no data

Flight 35 Test point 61

Sweep, deg = 30.0 Mach = 0.81 hp, ft = 35300. Angle of attack, deg = 1.1  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 223.0 R<sub>px</sub> = 1964000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     | none                        |
| Outboard station rake | 0.5242                                 | 0.1974                                  | 0.0748                              | none                        |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.2945             |
| 0.0500         | *****              | 0.0700           | 0.3632             |
| 0.1100         | *****              | 0.1200           | 0.4637             |
| 0.1700         | *****              | 0.1800           | 0.5395             |
| 0.2200         | *****              | 0.2100           | 0.5960             |
| 0.2700         | *****              | 0.2700           | 0.6956             |
| 0.3200         | *****              | 0.3100           | 0.7840             |
| 0.3600         | *****              | 0.3700           | 0.8642             |
| 0.4100         | *****              | 0.4200           | 0.9336             |
| 0.5100         | *****              | 0.5300           | 1.0034             |
| 0.7200         | *****              | 0.7300           | 1.0055             |
| 0.9100         | *****              | 0.9400           | 1.0067             |
| 1.1100         | *****              | 1.1500           | 1.0003             |
| 1.3000         | *****              | 1.3500           | 0.9955             |
| 1.5300         | *****              | 1.5500           | 1.0016             |
| 1.7400         | *****              | 1.7500           | 0.9970             |
| 1.9400         | *****              | 1.9500           | 1.0000             |
| 2.1400         | *****              | 2.1600           | 0.9965             |
| 2.3500         | **** **            | 2.3700           | 0.9955             |
| 2.5500         | *****              | 2.5800           | 0.9980             |

\*\*\*\*\* - no data

Flight 35 Test point 62

Sweep, deg = 30.9 Mach = 0.80 hp, ft = 35000. Angle of attack, deg = 2.0  
 Angle of sideslip, deg = 0.2 QBAR, lb/ft<sup>2</sup> = 224.9 Rrho = 1982000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.5577                                 | 0.2028                                  | 0.0740                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.2537 |
| 0.0500         | *****  | 0.0700           | 0.3156 |
| 0.1100         | *****  | 0.1200           | 0.4480 |
| 0.1700         | *****  | 0.1800           | 0.5305 |
| 0.2200         | *****  | 0.2100           | 0.6011 |
| 0.2700         | *****  | 0.2700           | 0.7060 |
| 0.3200         | *****  | 0.3100           | 0.7949 |
| 0.3600         | *****  | 0.3700           | 0.8714 |
| 0.4100         | *****  | 0.4200           | 0.9295 |
| 0.5100         | *****  | 0.5300           | 0.9869 |
| 0.7200         | *****  | 0.7300           | 1.0088 |
| 0.9100         | *****  | 0.9400           | 1.0110 |
| 1.1100         | *****  | 1.1500           | 1.0017 |
| 1.3000         | *****  | 1.3500           | 0.9966 |
| 1.5300         | *****  | 1.5500           | 1.0020 |
| 1.7400         | *****  | 1.7500           | 1.0001 |
| 1.9400         | *****  | 1.9500           | 1.0022 |
| 2.1400         | *****  | 2.1600           | 0.9971 |
| 2.3500         | *****  | 2.3700           | 0.9973 |
| 2.5500         | *****  | 2.5800           | 0.9962 |

\*\*\*\*\* - no data

Flight 35 Test point 63

Sweep, deg = 30.9 Mach = 0.80 hp, ft = 35400. Angle of attack, deg = 1.0  
 Angle of sideslip, deg = 0.0 QBAR, lb/ft<sup>2</sup> = 220.2 Rrho = 1946000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     | none                        |
| Outboard station rake | 0.5307                                 | 0.1763                                  | 0.0751                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4137 |
| 0.0500         | *****  | 0.0700           | 0.4713 |
| 0.1100         | *****  | 0.1200           | 0.5473 |
| 0.1700         | *****  | 0.1800           | 0.6136 |
| 0.2200         | *****  | 0.2100           | 0.6551 |
| 0.2700         | *****  | 0.2700           | 0.7304 |
| 0.3200         | *****  | 0.3100           | 0.8038 |
| 0.3600         | *****  | 0.3700           | 0.8683 |
| 0.4100         | *****  | 0.4200           | 0.9315 |
| 0.5100         | *****  | 0.5300           | 0.9996 |
| 0.7200         | *****  | 0.7300           | 1.0032 |
| 0.9100         | *****  | 0.9400           | 1.0062 |
| 1.1100         | *****  | 1.1500           | 0.9961 |
| 1.3000         | *****  | 1.3500           | 0.9943 |
| 1.5300         | *****  | 1.5500           | 1.0034 |
| 1.7400         | *****  | 1.7500           | 0.9998 |
| 1.9400         | *****  | 1.9500           | 1.0037 |
| 2.1400         | *****  | 2.1600           | 0.9999 |
| 2.3500         | *****  | 2.3700           | 0.9965 |
| 2.5500         | *****  | 2.5800           | 0.9973 |

\*\*\*\*\* - no data

Flight 35 Test point 64

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 34900. Angle of attack, deg = 3.8  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 172.0 Rrho = 1706000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.7168                        | 0.1680                         | 0.0815                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.4953 |
| 0.0500         | *****  | 0.0700           | 0.5517 |
| 0.1100         | *****  | 0.1200           | 0.6256 |
| 0.1700         | *****  | 0.1800           | 0.6758 |
| 0.2200         | *****  | 0.2100           | 0.7039 |
| 0.2700         | *****  | 0.2700           | 0.7654 |
| 0.3200         | *****  | 0.3100           | 0.8161 |
| 0.3600         | *****  | 0.3700           | 0.8504 |
| 0.4100         | *****  | 0.4200           | 0.8935 |
| 0.5100         | *****  | 0.5300           | 0.9631 |
| 0.7200         | *****  | 0.7300           | 1.0023 |
| 0.9100         | *****  | 0.9400           | 1.0052 |
| 1.1100         | *****  | 1.1500           | 0.9943 |
| 1.3000         | *****  | 1.3500           | 0.9903 |
| 1.5300         | *****  | 1.5500           | 1.0008 |
| 1.7400         | *****  | 1.7500           | 1.0008 |
| 1.9400         | *****  | 1.9500           | 1.0041 |
| 2.1400         | *****  | 2.1600           | 1.0011 |
| 2.3500         | *****  | 2.3700           | 0.9992 |
| 2.5500         | *****  | 2.5800           | 1.0019 |

\*\*\*\*\* - no data

Flight 35 Test point 65

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 35200. Angle of attack, deg = 0.7  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 168.6 Rrho = 1682000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.2950                        | 0.0662                         | 0.0289                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.6788 |
| 0.0500         | *****  | 0.0700           | 0.7380 |
| 0.1100         | *****  | 0.1200           | 0.8306 |
| 0.1700         | *****  | 0.1800           | 0.8986 |
| 0.2200         | *****  | 0.2100           | 0.9431 |
| 0.2700         | *****  | 0.2700           | 0.9849 |
| 0.3200         | *****  | 0.3100           | 1.0012 |
| 0.3600         | *****  | 0.3700           | 0.9960 |
| 0.4100         | *****  | 0.4200           | 1.0020 |
| 0.5100         | *****  | 0.5300           | 1.0033 |
| 0.7200         | *****  | 0.7300           | 1.0044 |
| 0.9100         | *****  | 0.9400           | 1.0082 |
| 1.1100         | *****  | 1.1500           | 0.9950 |
| 1.3000         | *****  | 1.3500           | 0.9905 |
| 1.5300         | *****  | 1.5500           | 1.0025 |
| 1.7400         | *****  | 1.7500           | 1.0021 |
| 1.9400         | *****  | 1.9500           | 1.0049 |
| 2.1400         | *****  | 2.1600           | 1.0025 |
| 2.3500         | *****  | 2.3700           | 1.0010 |
| 2.5500         | *****  | 2.5800           | 1.0015 |

\*\*\*\*\* - no data



Flight 35 Test point 66

Sweep, deg = 30.0 Mach = 0.70 hp, ft = 35000. Angle of attack, deg = 1.3  
 Angle of sideslip, deg = -0.2 QBAR, lb/ft<sup>2</sup> = 172.1 Rrho = 1705000.

|                       | Boundary layer<br>height, in.<br>***** | Displacement<br>thickness, in.<br>***** | Momentum<br>thickness, in.<br>***** | Transition<br>strip<br>none |
|-----------------------|--|---|-------------------------------------|-----------------------------|
| Middle station rake   |  |   |                                     |                             |
| Outboard station rake | 0.3021                                 | 0.0719                                  | 0.0318                              | none                        |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.6584 |
| 0.0500         | *****  | 0.0700           | 0.7144 |
| 0.1100         | *****  | 0.1200           | 0.8105 |
| 0.1700         | *****  | 0.1800           | 0.8802 |
| 0.2200         | *****  | 0.2100           | 0.9243 |
| 0.2700         | *****  | 0.2700           | 0.9760 |
| 0.3200         | *****  | 0.3100           | 0.9962 |
| 0.3600         | *****  | 0.3700           | 0.9984 |
| 0.4100         | *****  | 0.4200           | 1.0006 |
| 0.5100         | *****  | 0.5300           | 1.0028 |
| 0.7200         | *****  | 0.7300           | 1.0004 |
| 0.9100         | *****  | 0.9400           | 1.0046 |
| 1.1100         | *****  | 1.1500           | 0.9929 |
| 1.3000         | *****  | 1.3500           | 0.9885 |
| 1.5300         | *****  | 1.5500           | 1.0002 |
| 1.7400         | *****  | 1.7500           | 1.0002 |
| 1.9400         | *****  | 1.9500           | 1.0072 |
| 2.1400         | *****  | 2.1600           | 1.0023 |
| 2.3500         | *****  | 2.3700           | 1.0040 |
| 2.5500         | *****  | 2.5800           | 1.0017 |

\*\*\*\*\* - no data

Flight 35 Test point 67

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 35000. Angle of attack, deg = 3.4  
 Angle of sideslip, deg = -0.1 QBAR, lb/ft<sup>2</sup> = 169.6 Rrho = 1690000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.5590                        | 0.1800                         | 0.0730                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.1902 |
| 0.0500         | *****  | 0.0700           | 0.4086 |
| 0.1100         | *****  | 0.1200           | 0.5736 |
| 0.1700         | *****  | 0.1800           | 0.6550 |
| 0.2200         | *****  | 0.2100           | 0.6936 |
| 0.2700         | *****  | 0.2700           | 0.7645 |
| 0.3200         | *****  | 0.3100           | 0.8225 |
| 0.3600         | *****  | 0.3700           | 0.8655 |
| 0.4100         | *****  | 0.4200           | 0.9097 |
| 0.5100         | *****  | 0.5300           | 0.9828 |
| 0.7200         | *****  | 0.7300           | 1.0038 |
| 0.9100         | *****  | 0.9400           | 1.0042 |
| 1.1100         | *****  | 1.1500           | 0.9968 |
| 1.3000         | *****  | 1.3500           | 0.9917 |
| 1.5300         | *****  | 1.5500           | 1.0020 |
| 1.7400         | *****  | 1.7500           | 1.0010 |
| 1.9400         | *****  | 1.9500           | 1.0069 |
| 2.1400         | *****  | 2.1600           | 1.0035 |
| 2.3500         | *****  | 2.3700           | 1.0024 |
| 2.5500         | *****  | 2.5800           | 1.0049 |

\*\*\*\*\* - no data

Flight 35 Test point 68

Sweep, deg = 25.0 Mach = 0.70 hp, ft = 35400. Angle of attack, deg = 0.3  
 Angle of sideslip, deg = 0.3 QBAR, lb/ft<sup>2</sup> = 167.4 Rrho = 1670000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.2761                        | 0.0632                         | 0.0267                     | none                |

| Middle station |        | Outboard station |        |
|----------------|--------|------------------|--------|
| Y, in.         | U/Umax | Y, in.           | U/Umax |
| 0.0300         | *****  | 0.0400           | 0.6625 |
| 0.0500         | *****  | 0.0700           | 0.7398 |
| 0.1100         | *****  | 0.1200           | 0.8470 |
| 0.1700         | *****  | 0.1800           | 0.9155 |
| 0.2200         | *****  | 0.2100           | 0.9578 |
| 0.2700         | *****  | 0.2700           | 0.9896 |
| 0.3200         | *****  | 0.3100           | 0.9997 |
| 0.3600         | *****  | 0.3700           | 0.9980 |
| 0.4100         | *****  | 0.4200           | 0.9982 |
| 0.5100         | *****  | 0.5300           | 1.0028 |
| 0.7200         | *****  | 0.7300           | 1.0032 |
| 0.9100         | *****  | 0.9400           | 1.0050 |
| 1.1100         | *****  | 1.1500           | 0.9942 |
| 1.3000         | *****  | 1.3500           | 0.9906 |
| 1.5300         | *****  | 1.5500           | 1.0046 |
| 1.7400         | *****  | 1.7500           | 1.0023 |
| 1.9400         | *****  | 1.9500           | 1.0071 |
| 2.1400         | *****  | 2.1600           | 0.9990 |
| 2.3500         | *****  | 2.3700           | 1.0001 |
| 2.5500         | *****  | 2.5800           | 1.0057 |

\*\*\*\*\* - no data

Flight 35 Test point 69

Sweep, deg = 24.9 Mach = 0.70 hp, ft = 35100. Angle of attack, deg = 1.5  
 Angle of sideslip, deg = 0.1 QBAR, lb/ft<sup>2</sup> = 169.5 Rnpu = 1687000.

|                       | Boundary layer<br>height, in. | Displacement<br>thickness, in. | Momentum<br>thickness, in. | Transition<br>strip |
|-----------------------|-------------------------------|--------------------------------|----------------------------|---------------------|
| Middle station rake   | *****                         | *****                          | *****                      | none                |
| Outboard station rake | 0.3141                        | 0.0834                         | 0.0359                     | none                |

| Middle station |                    | Outboard station |                    |
|----------------|--------------------|------------------|--------------------|
| Y, in.         | U/U <sub>max</sub> | Y, in.           | U/U <sub>max</sub> |
| 0.0300         | *****              | 0.0400           | 0.5505             |
| 0.0500         | *****              | 0.0700           | 0.6556             |
| 0.1100         | *****              | 0.1200           | 0.7811             |
| 0.1700         | *****              | 0.1800           | 0.8569             |
| 0.2200         | *****              | 0.2100           | 0.9089             |
| 0.2700         | *****              | 0.2700           | 0.9647             |
| 0.3200         | *****              | 0.3100           | 0.9903             |
| 0.3600         | *****              | 0.3700           | 0.9949             |
| 0.4100         | *****              | 0.4200           | 0.9995             |
| 0.5100         | *****              | 0.5300           | 1.0011             |
| 0.7200         | *****              | 0.7300           | 1.0032             |
| 0.9100         | *****              | 0.9400           | 1.0066             |
| 1.1100         | *****              | 1.1500           | 0.9935             |
| 1.3000         | *****              | 1.3500           | 0.9877             |
| 1.5300         | *****              | 1.5500           | 1.0036             |
| 1.7400         | *****              | 1.7500           | 1.0005             |
| 1.9400         | *****              | 1.9500           | 1.0029             |
| 2.1400         | *****              | 2.1600           | 1.0012             |
| 2.3500         | *****              | 2.3700           | 1.0014             |
| 2.5500         | *****              | 2.5800           | 1.0040             |

\*\*\*\*\* - no data

Table 7 Boundary Layer Transition Locations

Flight 12 Outboard station data

| Test point | Equivalent sweep, deg | Mach | Angle of attack, deg | hp, ft | (x/c)T | RnT      | AG    |
|------------|-----------------------|------|----------------------|--------|--------|----------|-------|
| 1          | 35.0                  | 0.70 | 4.8                  | 35000. | ****   | *****    | 0.040 |
| 2          | 35.0                  | 0.70 | 0.7                  | 34000. | ****   | *****    | 0.350 |
| 3          | 35.0                  | 0.70 | 1.6                  | 35000. | ****   | *****    | 0.060 |
| 4          | 30.0                  | 0.71 | 4.1                  | 35000. | ****   | *****    | 0.040 |
| 5          | 30.0                  | 0.70 | 0.9                  | 36000. | ****   | *****    | 0.350 |
| 6          | 30.0                  | 0.67 | 1.5                  | 36000. | ****   | *****    | 0.350 |
| 7          | 25.0                  | 0.70 | 3.8                  | 35000. | ****   | *****    | 0.060 |
| 8          | 25.0                  | 0.70 | 1.0                  | 36000. | ****   | *****    | 0.350 |
| 9          | 25.0                  | 0.70 | 1.6                  | 35000. | ****   | *****    | 0.350 |
| 10         | 20.0                  | 0.70 | 3.3                  | 35000. | ****   | *****    | 0.060 |
| 11         | 20.0                  | 0.70 | 0.9                  | 35000. | ****   | *****    | 0.350 |
| 12         | 20.0                  | 0.70 | 1.5                  | 35000. | ****   | *****    | 0.350 |
| 13         | 20.0                  | 0.75 | 2.4                  | 35000. | ****   | *****    | 0.350 |
| 14         | 20.0                  | 0.75 | 0.5                  | 34000. | ****   | *****    | 0.350 |
| 15         | 20.0                  | 0.76 | 1.5                  | 35000. | 0.400  | 4302000. | 0.400 |
| 16         | 25.0                  | 0.76 | 2.6                  | 35000. | 0.350  | 3744000. | 0.100 |
| 17         | 25.0                  | 0.76 | 0.9                  | 35000. | 0.400  | 4541000. | 0.300 |
| 18         | 25.0                  | 0.76 | 1.6                  | 35000. | 0.400  | 4302000. | 0.250 |
| 19         | 30.0                  | 0.76 | 3.1                  | 35000. | 0.150  | 1548000. | 0.080 |
| 20         | 30.0                  | 0.76 | 0.5                  | 35000. | ****   | *****    | 0.350 |
| 21         | 30.0                  | 0.76 | 1.5                  | 35000. | 0.400  | 4541000. | 0.250 |
| 22         | 35.0                  | 0.75 | 3.5                  | 35000. | 0.050  | 504000.  | 0.060 |
| 23         | 35.0                  | 0.76 | 0.9                  | 35000. | 0.100  | 1083000. | 0.350 |
| 24         | 35.0                  | 0.75 | 1.5                  | 35000. | 0.350  | 3744000. | 0.250 |
| 25         | 35.0                  | 0.80 | 2.8                  | 35000. | 0.050  | 560000.  | 0.350 |
| 26         | 35.0                  | 0.80 | 0.8                  | 35000. | 0.100  | 1140000. | 0.250 |
| 27         | 35.0                  | 0.81 | 3.2                  | 35000. | 0.050  | 560000.  | 0.100 |
| 28         | 30.0                  | 0.80 | 2.3                  | 35000. | ****   | *****    | 0.450 |
| 29         | 30.0                  | 0.81 | 0.8                  | 35000. | 0.250  | 2920000. | 0.400 |
| 30         | 30.0                  | 0.80 | 3.1                  | 35000. | ****   | *****    | 0.100 |
| 31         | 20.0                  | 0.80 | 2.3                  | 35000. | ****   | *****    | 0.450 |
| 32         | 20.0                  | 0.80 | 3.4                  | 35000. | ****   | *****    | 0.400 |
| 33         | 20.0                  | 0.81 | 0.5                  | 35000. | ****   | *****    | 0.500 |
| 34         | 25.0                  | 0.80 | 1.7                  | 35000. | ****   | *****    | 0.500 |
| 35         | 22.0                  | 0.77 | 1.1                  | 24000. | 0.350  | 5824000. | 0.350 |
| 36         | 26.0                  | 0.80 | 3.3                  | 35000. | ****   | *****    | 0.350 |
| 37         | 20.0                  | 0.75 | 0.3                  | 20000. | 0.350  | 6656000. | 0.350 |

Flight 13 Outboard station data

| Test point | Equivalent sweep, deg | Mach | Angle of attack, deg | hp, ft | (x/c)T | RnT      | AG    |
|------------|-----------------------|------|----------------------|--------|--------|----------|-------|
| 1          | 35.0                  | 0.71 | 0.4                  | 34000. | 0.250  | 2628000. | 0.350 |
| 2          | 35.0                  | 0.70 | 1.1                  | 34000. | 0.250  | 2482000. | 0.350 |
| 3          | 30.0                  | 0.71 | 0.2                  | 35000. | 0.250  | 2482000. | 0.350 |
| 4          | 30.0                  | 0.70 | 1.4                  | 35000. | 0.400  | 4063000. | 0.350 |
| 5          | 25.0                  | 0.71 | 0.3                  | 35000. | 0.450  | 4607000. | 0.350 |
| 6          | 25.0                  | 0.71 | 1.0                  | 34000. | 0.450  | 4878000. | 0.350 |
| 7          | 20.0                  | 0.71 | 0.9                  | 34000. | 0.450  | 4607000. | 0.350 |
| 8          | 20.0                  | 0.70 | 1.8                  | 34000. | 0.400  | 4063000. | 0.250 |
| 9          | 20.0                  | 0.75 | 0.5                  | 34000. | 0.500  | 5776000. | 0.350 |
| 10         | 20.0                  | 0.75 | 1.4                  | 36000. | 0.350  | 3744000. | 0.400 |
| 11         | 26.0                  | 0.75 | 0.4                  | 35000. | 0.450  | 5149000. | 0.350 |
| 12         | 26.0                  | 0.75 | 1.1                  | 35000. | 0.500  | 5472000. | 0.350 |
| 13         | 30.0                  | 0.76 | 0.3                  | 35000. | 0.250  | 2628000. | 0.350 |
| 14         | 30.0                  | 0.75 | 1.1                  | 35000. | 0.300  | 3168000. | 0.350 |
| 15         | 35.0                  | 0.75 | -0.3                 | 36000. | 0.100  | 1026000. | 0.350 |
| 16         | 35.0                  | 0.75 | 0.9                  | 35000. | 0.250  | 2628000. | 0.350 |
| 17         | 35.0                  | 0.80 | 2.9                  | 35000. | 0.050  | 560000.  | 0.350 |
| 18         | 35.0                  | 0.80 | 0.2                  | 35000. | 0.100  | 1083000. | 0.350 |
| 19         | 35.0                  | 0.80 | 0.9                  | 35000. | 0.100  | 1140000. | 0.300 |
| 20         | 31.0                  | 0.80 | 2.4                  | 35000. | 0.350  | 4160000. | 0.450 |
| 21         | 31.0                  | 0.80 | 0.8                  | 34000. | 0.200  | 2320000. | 0.400 |
| 22         | 31.0                  | 0.80 | 1.5                  | 35000. | 0.325  | 3840000. | 0.400 |
| 23         | 25.0                  | 0.80 | 1.7                  | 35000. | 0.450  | 5420000. | 0.500 |
| 24         | 25.0                  | 0.80 | 0.6                  | 34000. | 0.350  | 4160000. | 0.500 |
| 25         | 25.0                  | 0.80 | 1.4                  | 35000. | 0.450  | 5420000. | 0.500 |
| 26         | 20.0                  | 0.80 | 1.8                  | 35000. | 0.475  | 5740000. | 0.450 |
| 27         | 20.0                  | 0.80 | 0.5                  | 35000. | 0.450  | 5420000. | 0.500 |
| 28         | 20.0                  | 0.80 | 1.5                  | 35000. | 0.450  | 5420000. | 0.450 |
| 29         | 30.0                  | 0.78 | 1.9                  | 34000. | 0.250  | 2774000. | 0.500 |
| 30         | 35.0                  | 0.82 | 2.3                  | 35000. | 0.050  | 560000.  | 0.400 |
| 31         | 23.0                  | 0.80 | 1.0                  | 30000. | 0.450  | 6504000. | 0.500 |
| 32         | 35.0                  | 0.80 | 1.7                  | 30000. | 0.050  | 672000.  | 0.060 |
| 33         | 27.0                  | 0.80 | 1.1                  | 30000. | 0.250  | 3504000. | 0.500 |
| 34         | 22.0                  | 0.80 | 0.5                  | 25000. | 0.300  | 4928000. | 0.500 |
| 35         | 35.0                  | 0.80 | 1.1                  | 25000. | 0.050  | 812000.  | 0.350 |
| 36         | 27.0                  | 0.80 | 0.7                  | 26000. | 0.100  | 1596000. | 0.450 |
| 37         | 23.0                  | 0.80 | 0.4                  | 25000. | 0.200  | 3248000. | 0.500 |
| 38         | 21.0                  | 0.80 | 0.4                  | 25000. | 0.350  | 6032000. | 0.550 |
| 39         | 20.0                  | 0.80 | -0.2                 | 20000. | 0.350  | 6864000. | 0.550 |
| 40         | 30.0                  | 0.80 | 0.3                  | 20000. | 0.050  | 924000.  | 0.400 |
| 41         | 24.0                  | 0.80 | 0.0                  | 20000. | 0.150  | 2924000. | 0.500 |
| 42         | 20.0                  | 0.80 | -0.2                 | 21000. | 0.350  | 6864000. | 0.550 |
| 43         | 20.0                  | 0.80 | 0.6                  | 20000. | 0.300  | 5984000. | 0.550 |
| 44         | 20.0                  | 0.80 | 1.4                  | 20000. | 0.350  | 7072000. | 0.350 |
| 45         | 25.0                  | 0.80 | 0.2                  | 20000. | 0.050  | 952000.  | 0.500 |
| 46         | 25.0                  | 0.80 | 0.9                  | 20000. | 0.100  | 1938000. | 0.500 |
| 47         | 25.0                  | 0.81 | 1.2                  | 20000. | 0.100  | 1938000. | 0.500 |

## Flight 14 Outboard station data

| Test point | Equivalent sweep, deg | Mach | Angle of attack, deg | hp, t  | (x/c) <sub>T</sub> | RnT      | AG    |
|------------|-----------------------|------|----------------------|--------|--------------------|----------|-------|
| 1          | 20.0                  | 0.60 | 1.3                  | 10000. | 0.050              | 980000.  | 0.350 |
| 2          | 20.0                  | 0.60 | 1.6                  | 9800.  | 0.050              | 980000.  | 0.350 |
| 3          | 20.0                  | 0.60 | 1.2                  | 10000. | 0.050              | 980000.  | 0.350 |
| 4          | 20.0                  | 0.60 | 1.5                  | 9800.  | 0.050              | 980000.  | 0.350 |
| 5          | 20.0                  | 0.70 | 0.3                  | 10000. | 0.050              | 1148000. | 0.350 |
| 6          | 20.0                  | 0.70 | 0.3                  | 10000. | 0.050              | 1148000. | 0.350 |
| 7          | 20.0                  | 0.70 | 1.5                  | 10000. | 0.050              | 1148000. | 0.250 |
| 8          | 25.0                  | 0.70 | 0.3                  | 10000. | 0.050              | 1148000. | 0.350 |
| 9          | 25.0                  | 0.70 | 0.6                  | 10000. | 0.050              | 1148000. | 0.350 |
| 10         | 25.0                  | 0.70 | 1.5                  | 10000. | 0.050              | 1148000. | 0.250 |
| 11         | 30.0                  | 0.70 | 0.4                  | 10000. | 0.050              | 1148000. | 0.350 |
| 12         | 30.0                  | 0.70 | 0.6                  | 10000. | 0.050              | 1176000. | 0.350 |
| 13         | 30.0                  | 0.70 | 1.4                  | 10000. | 0.050              | 1176000. | 0.250 |
| 14         | 35.0                  | 0.70 | 0.6                  | 10000. | 0.050              | 1176000. | 0.350 |
| 15         | 35.0                  | 0.70 | 1.4                  | 10000. | 0.050              | 1148000. | 0.250 |
| 16         | 35.0                  | 0.70 | 0.4                  | 10000. | 0.050              | 1176000. | 0.350 |
| 17         | 24.0                  | 0.70 | 0.2                  | 10000. | 0.050              | 1176000. | 0.350 |
| 18         | 20.0                  | 0.70 | 0.2                  | 10000. | 0.050              | 1148000. | 0.350 |
| 19         | 20.0                  | 0.70 | 0.3                  | 10000. | 0.050              | 1148000. | 0.350 |
| 20         | 20.0                  | 0.70 | 0.8                  | 20000. | 0.400              | 6931001. | 0.350 |
| 21         | 20.0                  | 0.71 | 0.4                  | 21000. | 0.450              | 7859000. | 0.350 |
| 22         | 20.0                  | 0.71 | 1.4                  | 20000. | 0.400              | 7170001. | 0.350 |
| 23         | 25.0                  | 0.70 | 1.0                  | 20000. | 0.100              | 1710000. | 0.350 |
| 24         | 25.0                  | 0.70 | 1.5                  | 20000. | 0.350              | 6240000. | 0.250 |
| 25         | 30.0                  | 0.70 | 1.2                  | 20000. | 0.050              | 812000.  | 0.250 |
| 26         | 30.0                  | 0.70 | 1.5                  | 20000. | 0.100              | 1710000. | 0.250 |
| 27         | 35.0                  | 0.70 | 1.5                  | 20000. | 0.050              | 840000.  | 0.060 |
| 28         | 35.0                  | 0.70 | 1.0                  | 20000. | 0.050              | 812000.  | 0.350 |
| 29         | 35.0                  | 0.75 | 1.0                  | 20000. | 0.050              | 896000.  | 0.350 |
| 30         | 35.0                  | 0.76 | 0.6                  | 20000. | 0.050              | 896000.  | 0.350 |

Flight 15 Middle station data

| Test point | Equivalent sweep, deg | Mach | Angle of attack, deg | hp, ft | (x/c)T | RnT      | AG    |
|------------|-----------------------|------|----------------------|--------|--------|----------|-------|
| 1          | 35.0                  | 0.70 | 4.9                  | 35000. | 0.050  | 612000.  | 0.040 |
| 2          | 35.0                  | 0.71 | 0.2                  | 35000. | 0.100  | 1241000. | 0.500 |
| 3          | 35.0                  | 0.70 | 1.0                  | 35000. | 0.250  | 3179000. | 0.400 |
| 4          | 30.0                  | 0.70 | 4.4                  | 35000. | 0.100  | 1241000. | 0.060 |
| 5          | 30.0                  | 0.71 | 0.2                  | 35000. | 0.150  | 1887000. | 0.500 |
| 6          | 30.0                  | 0.71 | 1.0                  | 34000. | 0.350  | 4806000. | 0.250 |
| 7          | 25.0                  | 0.70 | 3.5                  | 35000. | 0.150  | 1887000. | 0.040 |
| 8          | 25.0                  | 0.71 | 0.1                  | 35000. | 0.450  | 5933000. | 0.400 |
| 9          | 25.0                  | 0.71 | 1.5                  | 34000. | 0.400  | 5219000. | 0.250 |
| 10         | 20.0                  | 0.70 | 3.4                  | 35000. | 0.200  | 2533000. | 0.060 |
| 11         | 20.0                  | 0.70 | 0.8                  | 35000. | 0.420  | 5508000. | 0.400 |
| 12         | 20.0                  | 0.70 | 1.7                  | 34000. | 0.350  | 4539000. | 0.250 |
| 13         | 20.0                  | 0.76 | 2.5                  | 35000. | 0.450  | 6282000. | 0.400 |
| 14         | 20.0                  | 0.75 | 0.1                  | 35000. | 0.420  | 5832000. | 0.300 |
| 15         | 20.0                  | 0.75 | 1.0                  | 35000. | 0.420  | 5832000. | 0.500 |
| 16         | 25.0                  | 0.75 | 3.0                  | 35000. | 0.400  | 5526000. | 0.350 |
| 17         | 25.0                  | 0.75 | 0.3                  | 35000. | 0.450  | 6282000. | 0.400 |
| 18         | 25.0                  | 0.76 | 1.0                  | 34000. | 0.400  | 5833000. | 0.250 |
| 19         | 30.0                  | 0.75 | 3.2                  | 35000. | 0.200  | 2682000. | 0.060 |
| 20         | 30.0                  | 0.76 | 0.1                  | 36000. | 0.220  | 2952000. | 0.400 |
| 21         | 30.0                  | 0.75 | 1.1                  | 35000. | 0.300  | 4086000. | 0.250 |
| 22         | 35.0                  | 0.75 | 3.6                  | 35000. | 0.050  | 640000.  | 0.060 |
| 23         | 36.0                  | 0.75 | -0.2                 | 35000. | 0.050  | 648000.  | 0.500 |
| 24         | 36.0                  | 0.76 | 0.6                  | 34000. | 0.100  | 1387000. | 0.400 |
| 25         | 36.0                  | 0.81 | 2.5                  | 35000. | 0.050  | 720000.  | 0.400 |
| 26         | 35.0                  | 0.80 | 0.2                  | 35000. | 0.050  | 720000.  | 0.400 |
| 27         | 36.0                  | 0.81 | 1.0                  | 34000. | 0.050  | 720000.  | 0.300 |
| 28         | 30.0                  | 0.80 | 2.1                  | 35000. | 0.300  | 4313000. | 0.450 |
| 29         | 30.0                  | 0.81 | 0.5                  | 35000. | 0.120  | 1760000. | 0.400 |
| 30         | 30.0                  | 0.81 | 1.6                  | 34000. | 0.200  | 2980000. | 0.400 |
| 31         | 25.0                  | 0.80 | 1.6                  | 35000. | 0.450  | 6631000. | 0.500 |
| 32         | 25.0                  | 0.81 | 0.5                  | 34000. | 0.300  | 4540000. | 0.500 |
| 33         | 20.0                  | 0.80 | 1.5                  | 35000. | 0.525  | 8240000. | 0.450 |
| 34         | 20.0                  | 0.80 | 0.6                  | 35000. | 0.500  | 7820000. | 0.500 |
| 35         | 30.0                  | 0.82 | 2.1                  | 35000. | 0.200  | 2980000. | 0.500 |
| 36         | 35.0                  | 0.82 | 2.2                  | 35000. | 0.050  | 720000.  | 0.400 |
| 37         | 32.0                  | 0.81 | 1.7                  | 30000. | 0.050  | 864000.  | 0.400 |
| 38         | 27.0                  | 0.81 | 1.2                  | 30000. | 0.250  | 4488000. | 0.500 |
| 39         | 20.0                  | 0.80 | 0.8                  | 30000. | 0.350  | 6408000. | 0.500 |
| 40         | 30.0                  | 0.75 | 2.0                  | 30000. | 0.300  | 4994000. | 0.250 |
| 41         | 20.0                  | 0.75 | 1.3                  | 30000. | 0.350  | 5874000. | 0.500 |
| 42         | 34.0                  | 0.75 | 2.0                  | 30000. | 0.100  | 1606000. | 0.040 |
| 43         | 20.0                  | 0.80 | 0.1                  | 25000. | 0.250  | 5236000. | 0.500 |



Flight 16 Middle station data

| Test point | Equivalent sweep, deg | Mach | Angle of attack, deg | hp, ft | (x/c)T | RnT      | AG    |
|------------|-----------------------|------|----------------------|--------|--------|----------|-------|
| 1          | 20.0                  | 0.80 | 1.4                  | 30000. | 0.300  | 5448000. | 0.450 |
| 2          | 20.0                  | 0.80 | 0.2                  | 29000. | 0.400  | 7368000. | 0.500 |
| 3          | 20.0                  | 0.81 | 0.1                  | 30000. | 0.400  | 7061000. | 0.500 |
| 4          | 25.0                  | 0.81 | 0.5                  | 25000. | 0.100  | 2117000. | 0.500 |
| 5          | 23.0                  | 0.80 | 0.5                  | 25000. | 0.200  | 4172000. | 0.500 |
| 6          | 20.0                  | 0.80 | 0.5                  | 25000. | 0.320  | 6916000. | 0.500 |
| 7          | 20.0                  | 0.80 | 0.9                  | 25000. | 0.450  | 9772000. | 0.500 |
| 8          | 30.0                  | 0.75 | 1.5                  | 25000. | 0.050  | 936000.  | 0.250 |
| 9          | 28.0                  | 0.75 | 1.3                  | 25000. | 0.200  | 3874000. | 0.400 |
| 10         | 20.0                  | 0.75 | 0.5                  | 25000. | 0.350  | 6942000. | 0.300 |
| 11         | 20.0                  | 0.74 | 1.1                  | 25000. | 0.400  | 7982000. | 0.350 |
| 12         | 32.0                  | 0.70 | 2.0                  | 25000. | 0.150  | 2775000. | 0.040 |
| 13         | 31.0                  | 0.70 | 2.0                  | 25000. | 0.150  | 2664000. | 0.040 |
| 14         | 28.0                  | 0.70 | 1.7                  | 25000. | 0.270  | 5075000. | 0.250 |
| 15         | 20.0                  | 0.71 | 0.9                  | 25000. | 0.350  | 6675000. | 0.250 |
| 16         | 20.0                  | 0.70 | 0.8                  | 20000. | 0.350  | 7743000. | 0.250 |
| 17         | 20.0                  | 0.70 | 1.6                  | 20000. | 0.350  | 7743000. | 0.250 |
| 18         | 25.0                  | 0.70 | 0.5                  | 20000. | 0.200  | 4321000. | 0.250 |
| 19         | 25.0                  | 0.71 | 1.3                  | 20000. | 0.050  | 1044000. | 0.250 |
| 20         | 30.0                  | 0.71 | 1.0                  | 20000. | 0.050  | 1044000. | 0.250 |
| 21         | 30.0                  | 0.70 | 2.0                  | 20000. | 0.100  | 2117000. | 0.040 |
| 22         | 35.0                  | 0.71 | 1.2                  | 20000. | 0.050  | 1044000. | 0.250 |
| 23         | 35.0                  | 0.71 | 2.1                  | 20000. | 0.050  | 1044000. | 0.040 |
| 24         | 35.0                  | 0.69 | 0.6                  | 20000. | 0.050  | 1044000. | 0.250 |
| 25         | 35.0                  | 0.75 | 0.7                  | 20000. | 0.050  | 1116000. | 0.250 |
| 26         | 35.0                  | 0.75 | 0.0                  | 20000. | 0.050  | 1152000. | 0.250 |
| 27         | 35.0                  | 0.75 | 1.7                  | 20000. | 0.050  | 1116000. | 0.250 |
| 28         | 30.0                  | 0.75 | 0.6                  | 20000. | 0.050  | 1116000. | 0.250 |
| 29         | 30.0                  | 0.77 | 1.5                  | 20000. | 0.050  | 1152000. | 0.400 |
| 30         | 25.0                  | 0.75 | 0.1                  | 20000. | 0.100  | 2263000. | 0.300 |
| 31         | 25.0                  | 0.76 | 1.0                  | 20000. | 0.120  | 2728000. | 0.300 |

Flight 17 Middle station data

| Test point | Equivalent sweep, deg | Mach | Angle of attack, deg | hp, ft | (x/c)T | RnT       | AG    |
|------------|-----------------------|------|----------------------|--------|--------|-----------|-------|
| 1          | 20.0                  | 0.70 | 0.0                  | 9700.  | 0.050  | 1476000.  | 0.300 |
| 2          | 20.0                  | 0.70 | 0.2                  | 9900.  | 0.400  | 12587000. | 0.300 |
| 3          | 20.0                  | 0.70 | 0.0                  | 10000. | 0.200  | 6109000.  | 0.300 |
| 4          | 20.0                  | 0.70 | 0.2                  | 10000. | 0.300  | 9307000.  | 0.300 |
| 5          | 20.0                  | 0.70 | 1.1                  | 10000. | 0.050  | 1476000.  | 0.250 |
| 6          | 25.0                  | 0.70 | 0.1                  | 10000. | 0.050  | 1476000.  | 0.300 |
| 7          | 25.0                  | 0.71 | 0.5                  | 10000. | 0.050  | 1476000.  | 0.250 |
| 8          | 25.0                  | 0.71 | 0.9                  | 10000. | 0.050  | 1476000.  | 0.250 |
| 9          | 30.0                  | 0.70 | 0.1                  | 10000. | 0.050  | 1476000.  | 0.250 |
| 10         | 30.0                  | 0.71 | 0.4                  | 10000. | 0.050  | 1476000.  | 0.250 |
| 11         | 30.0                  | 0.70 | 1.3                  | 10000. | 0.050  | 1440000.  | 0.250 |
| 12         | 35.0                  | 0.70 | 0.5                  | 10000. | 0.050  | 1476000.  | 0.250 |
| 13         | 35.0                  | 0.71 | 0.9                  | 10000. | 0.050  | 1476000.  | 0.250 |
| 14         | 35.0                  | 0.70 | 1.2                  | 10000. | 0.050  | 1476000.  | 0.250 |
| 15         | 20.0                  | 0.60 | 0.6                  | 10000. | 0.150  | 3885000.  | 0.250 |
| 16         | 26.0                  | 0.60 | 0.9                  | 10000. | 0.100  | 2555000.  | 0.250 |
| 17         | 24.0                  | 0.60 | 0.5                  | 10000. | 0.150  | 3774000.  | 0.250 |
| 18         | 20.0                  | 0.60 | 1.2                  | 9900.  | 0.325  | 8398000.  | 0.250 |
| 19         | 20.0                  | 0.75 | 0.1                  | 20000. | 0.350  | 8277000.  | 0.300 |
| 20         | 20.0                  | 0.75 | 0.6                  | 20000. | 0.400  | 9517000.  | 0.350 |
| 21         | 20.0                  | 0.75 | 1.5                  | 20000. | 0.150  | 3441000.  | 0.300 |
| 22         | 21.0                  | 0.80 | -0.2                 | 21000. | 0.100  | 2409000.  | 0.550 |
| 23         | 20.0                  | 0.80 | -0.1                 | 21000. | 0.200  | 4917000.  | 0.550 |
| 24         | 20.0                  | 0.80 | 0.2                  | 21000. | 0.450  | 11517000. | 0.550 |
| 25         | 20.0                  | 0.80 | 0.4                  | 20000. | 0.300  | 7491000.  | 0.500 |
| 26         | 20.0                  | 0.81 | 1.6                  | 21000. | 0.400  | 10131000. | 0.500 |

Flight 18 Middle station data

| Test point | Equivalent sweep, deg | Mach | Angle of attack, deg | hp, ft | (X/c)T | RnT       | AG    |
|------------|-----------------------|------|----------------------|--------|--------|-----------|-------|
| 1          | 25.0                  | 0.80 | 0.1                  | 20000. | 0.050  | 1224000.  | 0.500 |
| 2          | 25.0                  | 0.80 | 0.9                  | 20000. | 0.050  | 1224000.  | 0.500 |
| 3          | 30.0                  | 0.80 | 0.4                  | 20000. | 0.050  | 1224000.  | 0.400 |
| 4          | 30.0                  | 0.81 | 0.0                  | 20000. | 0.050  | 1224000.  | 0.400 |
| 5          | 30.0                  | 0.81 | 0.9                  | 20000. | 0.050  | 1224000.  | 0.400 |
| 6          | 35.0                  | 0.80 | 0.9                  | 20000. | 0.050  | 1224000.  | 0.300 |
| 7          | 35.0                  | 0.80 | -0.2                 | 20000. | 0.050  | 1188000.  | 0.250 |
| 8          | 35.0                  | 0.80 | 1.0                  | 20000. | 0.050  | 1224000.  | 0.450 |
| 9          | 35.0                  | 0.83 | 0.5                  | 20000. | 0.050  | 1260000.  | 0.400 |
| 10         | 30.0                  | 0.83 | 0.2                  | 20000. | 0.050  | 1260000.  | 0.500 |
| 11         | 25.0                  | 0.81 | 0.8                  | 24000. | 0.100  | 2117000.  | 0.500 |
| 12         | 25.0                  | 0.81 | 1.2                  | 28000. | 0.200  | 3725000.  | 0.500 |
| 13         | 25.0                  | 0.81 | 1.5                  | 30000. | 0.300  | 5448000.  | 0.500 |
| 14         | 30.0                  | 0.90 | 2.8                  | 35000. | ****   | *****     | 0.450 |
| 15         | 30.0                  | 0.80 | 0.8                  | 35000. | 0.100  | 1387000.  | 0.400 |
| 16         | 30.0                  | 0.79 | 1.5                  | 36000. | 0.220  | 3116000.  | 0.400 |
| 17         | 25.0                  | 0.80 | 2.3                  | 35000. | 0.500  | 7429000.  | 0.450 |
| 18         | 25.0                  | 0.81 | 0.6                  | 36000. | 0.300  | 4313000.  | 0.500 |
| 19         | 25.0                  | 0.79 | 1.1                  | 35000. | ****   | *****     | 0.500 |
| 20         | 25.0                  | 0.80 | 0.7                  | 33000. | 0.350  | 5607000.  | 0.500 |
| 21         | 25.0                  | 0.79 | 0.4                  | 32000. | 0.400  | 6447000.  | 0.400 |
| 22         | 20.0                  | 0.81 | 1.7                  | 33000. | 0.450  | 7329000.  | 0.450 |
| 23         | 20.0                  | 0.80 | 0.4                  | 25000. | 0.500  | 10948000. | 0.500 |
| 24         | 20.0                  | 0.80 | 0.3                  | 25000. | 0.450  | 9772000.  | 0.500 |
| 25         | 20.0                  | 0.81 | 0.5                  | 25000. | 0.400  | 8596000.  | 0.500 |
| 26         | 20.0                  | 0.80 | 1.0                  | 26000. | 0.450  | 9772000.  | 0.500 |
| 27         | 20.0                  | 0.80 | 1.5                  | 25000. | 0.500  | 10948000. | 0.500 |
| 28         | 25.0                  | 0.80 | 0.4                  | 25000. | 0.100  | 2044000.  | 0.500 |
| 29         | 25.0                  | 0.81 | 1.0                  | 25000. | 0.150  | 3108000.  | 0.500 |
| 30         | 25.0                  | 0.80 | 1.5                  | 25000. | 0.200  | 4172000.  | 0.500 |
| 31         | 20.0                  | 0.70 | 1.6                  | 25000. | 0.350  | 6408000.  | 0.250 |
| 32         | 20.0                  | 0.70 | 0.6                  | 25000. | 0.400  | 7368000.  | 0.250 |
| 33         | 20.0                  | 0.70 | 1.5                  | 25000. | 0.350  | 6408000.  | 0.250 |
| 34         | 25.0                  | 0.70 | 1.4                  | 25000. | 0.350  | 6408000.  | 0.250 |
| 35         | 25.0                  | 0.70 | 0.5                  | 25000. | 0.400  | 7368000.  | 0.250 |
| 36         | 25.0                  | 0.70 | 1.5                  | 25000. | 0.350  | 6675000.  | 0.250 |
| 37         | 25.0                  | 0.71 | 1.1                  | 19000. | 0.250  | 5797000.  | 0.250 |
| 38         | 25.0                  | 0.70 | 0.6                  | 18000. | 0.200  | 4619000.  | 0.250 |
| 39         | 25.0                  | 0.70 | 0.2                  | 16000. | 0.100  | 2482000.  | 0.250 |
| 40         | 25.0                  | 0.70 | 0.2                  | 14000. | 0.080  | 2088000.  | 0.250 |
| 41         | 22.0                  | 0.69 | -0.2                 | 10000. | 0.100  | 2920000.  | 0.300 |
| 42         | 20.0                  | 0.70 | 0.2                  | 9900.  | 0.350  | 10947000. | 0.300 |

Flight 22 Inboard station data

| Test point | Equivalent sweep, deg | Mach | Angle of attack, deg | hp, ft | (x/c)T | RnT      | AG    |
|------------|-----------------------|------|----------------------|--------|--------|----------|-------|
| 1          | 35.0                  | 0.70 | 4.6                  | 35000. | 0,050  | 748000.  | 0,060 |
| 2          | 35.0                  | 0.70 | 0.5                  | 35000. | 0,100  | 1424000. | 0,250 |
| 3          | 35.0                  | 0.70 | 0.9                  | 35000. | 0,100  | 1513000. | 0,250 |
| 4          | 30.0                  | 0.71 | 4.6                  | 35000. | 0,100  | 1513000. | 0,060 |
| 5          | 30.0                  | 0.70 | 0.1                  | 35000. | 0,200  | 3077000. | 0,250 |
| 6          | 30.0                  | 0.70 | 1.0                  | 34000. | ****   | *****    | 0,250 |
| 7          | 25.0                  | 0.71 | 3.7                  | 35000. | 0,150  | 2295000. | 0,060 |
| 8          | 25.0                  | 0.70 | 0.1                  | 35000. | ****   | *****    | 0,250 |
| 9          | 25.0                  | 0.70 | 1.0                  | 34000. | ****   | *****    | 0,200 |
| 10         | 20.0                  | 0.70 | 3.2                  | 35000. | 0,200  | 3077000. | 0,060 |
| 11         | 20.0                  | 0.71 | 0.7                  | 35000. | ****   | *****    | 0,250 |
| 12         | 20.0                  | 0.76 | 2.6                  | 35000. | ****   | *****    | 0,300 |
| 13         | 20.0                  | 0.76 | 0.1                  | 35000. | ****   | *****    | 0,250 |
| 14         | 20.0                  | 0.75 | 1.0                  | 35000. | 0,400  | 6750000. | 0,250 |
| 15         | 25.0                  | 0.75 | 2.9                  | 35000. | ****   | *****    | 0,250 |
| 16         | 25.0                  | 0.75 | 0.1                  | 35000. | ****   | *****    | 0,300 |
| 17         | 25.0                  | 0.75 | 1.0                  | 34000. | ****   | *****    | 0,250 |
| 18         | 30.0                  | 0.76 | 3.4                  | 35000. | 0,200  | 3258000. | 0,060 |
| 19         | 30.0                  | 0.75 | 0.1                  | 34000. | 0,200  | 3439000. | 0,250 |
| 20         | 30.0                  | 0.76 | 1.1                  | 34000. | 0,100  | 1691000. | 0,250 |
| 21         | 35.0                  | 0.75 | 3.4                  | 35000. | 0,050  | 792000.  | 0,060 |
| 22         | 35.0                  | 0.75 | -0.5                 | 34000. | 0,050  | 836000.  | 0,250 |
| 23         | 35.0                  | 0.75 | 0.6                  | 34000. | 0,050  | 836000.  | 0,250 |
| 24         | 35.0                  | 0.81 | 2.5                  | 35000. | 0,050  | 880000.  | 0,060 |
| 25         | 35.0                  | 0.81 | 0.0                  | 35000. | 0,050  | 836000.  | 0,300 |
| 26         | 35.0                  | 0.81 | 1.0                  | 35000. | 0,050  | 880000.  | 0,250 |
| 27         | 30.0                  | 0.80 | 2.3                  | 35000. | 0,100  | 1691000. | 0,060 |
| 28         | 30.0                  | 0.80 | 0.5                  | 35000. | 0,050  | 880000.  | 0,300 |
| 29         | 30.0                  | 0.81 | 1.5                  | 34000. | 0,050  | 880000.  | 0,400 |
| 30         | 25.0                  | 0.80 | 2.0                  | 35000. | ****   | *****    | 0,450 |
| 31         | 25.0                  | 0.81 | 0.5                  | 35000. | 0,200  | 3620000. | 0,300 |
| 32         | 25.0                  | 0.81 | 1.5                  | 34000. | ****   | *****    | 0,450 |
| 33         | 20.0                  | 0.80 | 1.5                  | 35000. | 0,350  | 6175000. | 0,500 |
| 34         | 20.0                  | 0.81 | 0.5                  | 35000. | 0,350  | 6175000. | 0,500 |
| 35         | 20.0                  | 0.80 | 1.5                  | 35000. | ****   | *****    | 0,500 |
| 36         | 30.0                  | 0.83 | 2.2                  | 35000. | 0,100  | 1780000. | 0,450 |
| 37         | 35.0                  | 0.83 | 2.5                  | 35000. | 0,050  | 880000.  | 0,060 |
| 38         | 20.0                  | 0.80 | 0.3                  | 25000. | 0,250  | 6412000. | 0,500 |
| 39         | 20.0                  | 0.80 | 1.0                  | 25000. | ****   | *****    | 0,500 |
| 40         | 25.0                  | 0.80 | 0.2                  | 25000. | 0,050  | 1232000. | 0,500 |
| 41         | 25.0                  | 0.80 | 1.0                  | 25000. | 0,050  | 1232000. | 0,500 |
| 42         | 25.0                  | 0.80 | 2.0                  | 25000. | 0,100  | 2492000. | 0,450 |
| 43         | 30.0                  | 0.80 | 0.6                  | 25000. | 0,050  | 1232000. | 0,300 |
| 44         | 30.0                  | 0.80 | 1.2                  | 25000. | 0,050  | 1232000. | 0,350 |
| 45         | 30.0                  | 0.80 | 2.0                  | 25000. | 0,050  | 1232000. | 0,450 |
| 46         | 20.0                  | 0.70 | 0.3                  | 20000. | ****   | *****    | 0,250 |
| 47         | 20.0                  | 0.71 | 0.6                  | 20000. | ****   | *****    | 0,250 |
| 48         | 20.0                  | 0.70 | 1.6                  | 20000. | ****   | *****    | 0,200 |
| 49         | 25.0                  | 0.70 | 0.7                  | 20000. | 0,100  | 2581000. | 0,250 |

Flight 22 Inboard station data

| Test point | Equivalent sweep, deg | Mach | Angle of attack, deg | hp, ft | (x/c)T | RnT      | AG    |
|------------|-----------------------|------|----------------------|--------|--------|----------|-------|
| 50         | 25.0                  | 0.70 | 1.0                  | 20000. | 0.180  | 0.       | 0.250 |
| 51         | 25.0                  | 0.70 | 1.6                  | 20000. | 0.200  | 5249000. | 0.100 |
| 52         | 30.0                  | 0.70 | 1.0                  | 20000. | 0.050  | 1276000. | 0.250 |
| 53         | 30.0                  | 0.70 | 1.6                  | 20000. | 0.050  | 1276000. | 0.200 |
| 54         | 35.0                  | 0.70 | 1.3                  | 20000. | 0.050  | 1276000. | 0.200 |
| 55         | 35.0                  | 0.70 | 1.0                  | 20000. | 0.050  | 1276000. | 0.200 |
| 56         | 35.0                  | 0.70 | 1.6                  | 20000. | 0.050  | 1276000. | 0.040 |
| 57         | 35.0                  | 0.75 | 0.6                  | 20000. | 0.050  | 1364000. | 0.250 |
| 58         | 35.0                  | 0.76 | 1.5                  | 20000. | 0.050  | 1408000. | 0.250 |
| 59         | 30.0                  | 0.76 | 0.6                  | 20000. | 0.050  | 1408000. | 0.300 |
| 60         | 30.0                  | 0.75 | 1.7                  | 20000. | 0.050  | 1364000. | 0.250 |
| 61         | 25.0                  | 0.75 | 0.1                  | 20000. | 0.050  | 1364000. | 0.300 |
| 62         | 25.0                  | 0.75 | 0.5                  | 20000. | 0.050  | 1408000. | 0.250 |
| 63         | 25.0                  | 0.75 | 1.6                  | 20000. | 0.050  | 1364000. | 0.250 |
| 64         | 20.0                  | 0.75 | 0.0                  | 20000. | 0.200  | 5611000. | 0.250 |
| 65         | 20.0                  | 0.76 | 0.6                  | 20000. | ****   | *****    | 0.400 |
| 66         | 20.0                  | 0.76 | 1.6                  | 20000. | ****   | *****    | 0.300 |
| 67         | 20.0                  | 0.80 | -0.3                 | 20000. | 0.100  | 3026000. | 0.500 |
| 68         | 20.0                  | 0.81 | 0.6                  | 20000. | 0.150  | 4590000. | 0.500 |
| 69         | 20.0                  | 0.81 | 1.7                  | 20000. | 0.200  | 6154000. | 0.450 |
| 70         | 25.0                  | 0.80 | -0.3                 | 20000. | 0.050  | 1496000. | 0.400 |
| 71         | 25.0                  | 0.80 | 1.0                  | 20000. | 0.050  | 1496000. | 0.400 |
| 72         | 31.0                  | 0.80 | 0.1                  | 20000. | 0.050  | 1496000. | 0.300 |

Flight 23 Inboard station data

| Test point | Equivalent sweep, deg | Mach | Angle of attack, deg | hp, ft | (x/c)T | RnT      | AG    |
|------------|-----------------------|------|----------------------|--------|--------|----------|-------|
| 1          | 20.0                  | 0.70 | -0.1                 | 10000. | 0.150  | 5670000. | 0.250 |
| 2          | 20.0                  | 0.70 | 0.5                  | 10000. | 0.050  | 1804000. | 0.250 |
| 3          | 20.0                  | 0.70 | 1.6                  | 10000. | 0.100  | 3649000. | 0.200 |
| 4          | 20.0                  | 0.70 | 1.5                  | 10000. | 0.100  | 3738000. | 0.200 |
| 5          | 25.0                  | 0.70 | 0.0                  | 10000. | 0.050  | 1848000. | 0.250 |
| 6          | 25.0                  | 0.70 | 0.3                  | 10000. | 0.050  | 1804000. | 0.250 |
| 7          | 25.0                  | 0.70 | 1.3                  | 10000. | 0.050  | 1848000. | 0.200 |
| 8          | 30.0                  | 0.70 | 0.3                  | 10000. | 0.050  | 1848000. | 0.250 |
| 9          | 30.0                  | 0.70 | 0.4                  | 10000. | 0.050  | 1848000. | 0.250 |
| 10         | 30.0                  | 0.70 | 1.7                  | 10000. | 0.050  | 1848000. | 0.060 |
| 11         | 35.0                  | 0.71 | 0.2                  | 10000. | 0.050  | 1848000. | 0.250 |
| 12         | 35.0                  | 0.70 | 0.6                  | 10000. | 0.050  | 1848000. | 0.200 |
| 13         | 35.0                  | 0.71 | 1.7                  | 10000. | 0.050  | 1848000. | 0.060 |
| 14         | 20.0                  | 0.70 | 0.8                  | 20000. | 0.150  | 4050000. | 0.250 |
| 15         | 20.0                  | 0.70 | 0.4                  | 20000. | 0.150  | 4050000. | 0.250 |
| 16         | 20.0                  | 0.70 | 1.4                  | 20000. | 0.150  | 4050000. | 0.200 |
| 17         | 20.0                  | 0.75 | 0.2                  | 20000. | 0.100  | 2848000. | 0.250 |
| 18         | 20.0                  | 0.75 | 0.4                  | 20000. | 0.100  | 2848000. | 0.250 |
| 19         | 20.0                  | 0.75 | 1.4                  | 20000. | 0.120  | 3424000. | 0.300 |
| 20         | 30.0                  | 0.80 | 0.2                  | 20000. | 0.050  | 1540000. | 0.300 |
| 21         | 30.0                  | 0.80 | 0.0                  | 20000. | 0.050  | 1540000. | 0.300 |
| 22         | 30.0                  | 0.80 | 1.1                  | 20000. | 0.050  | 1496000. | 0.400 |
| 23         | 35.0                  | 0.81 | 0.4                  | 20000. | 0.050  | 1540000. | 0.300 |
| 24         | 36.0                  | 0.80 | 0.1                  | 20000. | 0.050  | 1540000. | 0.300 |
| 25         | 36.0                  | 0.80 | 1.1                  | 20000. | 0.050  | 1540000. | 0.250 |
| 26         | 35.0                  | 0.83 | 0.2                  | 20000. | 0.050  | 1584000. | 0.400 |
| 27         | 30.0                  | 0.83 | -0.1                 | 20000. | 0.050  | 1584000. | 0.500 |
| 28         | 25.0                  | 0.80 | 0.3                  | 35000. | 0.150  | 2700000. | 0.300 |
| 29         | 25.0                  | 0.81 | 1.6                  | 35000. | 0.250  | 4580000. | 0.500 |
| 30         | 20.0                  | 0.80 | 0.6                  | 35000. | 0.350  | 6500000. | 0.500 |
| 31         | 20.0                  | 0.80 | 1.6                  | 35000. | 0.350  | 6500000. | 0.400 |
| 32         | 20.0                  | 0.76 | 0.3                  | 35000. | 0.350  | 6175000. | 0.250 |
| 33         | 20.0                  | 0.75 | 0.9                  | 34000. | 0.350  | 6175000. | 0.300 |
| 34         | 25.0                  | 0.75 | 0.1                  | 36000. | 0.350  | 5850000. | 0.250 |
| 35         | 25.0                  | 0.75 | 1.1                  | 36000. | 0.250  | 4122000. | 0.250 |
| 36         | 20.0                  | 0.70 | 0.8                  | 35000. | 0.150  | 2295000. | 0.200 |
| 37         | 20.0                  | 0.70 | 1.8                  | 35000. | 0.250  | 3893000. | 0.200 |
| 38         | 25.0                  | 0.70 | 0.0                  | 34000. | 0.150  | 2295000. | 0.200 |
| 39         | 25.0                  | 0.70 | 1.0                  | 34000. | 0.250  | 4122000. | 0.200 |
| 40         | 30.0                  | 0.71 | 0.1                  | 35000. | 0.200  | 3077000. | 0.250 |
| 41         | 30.0                  | 0.70 | 0.0                  | 34000. | 0.150  | 2430000. | 0.250 |
| 42         | 30.0                  | 0.70 | 1.2                  | 34000. | 0.250  | 4122000. | 0.200 |
| 43         | 35.0                  | 0.69 | 0.1                  | 36000. | 0.080  | 1136000. | 0.200 |
| 44         | 35.0                  | 0.70 | 0.9                  | 36000. | 0.100  | 1513000. | 0.200 |
| 45         | 35.0                  | 0.70 | 2.1                  | 25000. | 0.050  | 1100000. | 0.040 |
| 46         | 35.0                  | 0.70 | 0.5                  | 25000. | 0.050  | 1100000. | 0.200 |
| 47         | 35.0                  | 0.71 | 1.6                  | 24000. | 0.050  | 1100000. | 0.040 |
| 48         | 30.0                  | 0.71 | 2.0                  | 25000. | 0.050  | 1100000. | 0.040 |
| 49         | 30.0                  | 0.71 | 0.6                  | 25000. | 0.050  | 1100000. | 0.200 |

Flight 23 Inboard station data

| Test point | Equivalent sweep, deg | Mach | Angle of attack, deg | hp, ft | (X/c)T | RnT      | AG    |
|------------|-----------------------|------|----------------------|--------|--------|----------|-------|
| 50         | 30.0                  | 0.71 | 1.5                  | 25000. | 0.050  | 1100000. | 0.040 |
| 51         | 25.0                  | 0.71 | 1.2                  | 25000. | 0.150  | 3375000. | 0.200 |
| 52         | 25.0                  | 0.70 | 0.6                  | 25000. | 0.150  | 3375000. | 0.200 |
| 53         | 25.0                  | 0.71 | 1.6                  | 25000. | 0.150  | 3375000. | 0.060 |
| 54         | 20.0                  | 0.70 | 1.4                  | 25000. | 0.150  | 3375000. | 0.200 |
| 55         | 20.0                  | 0.70 | 0.6                  | 26000. | 0.150  | 3240000. | 0.200 |
| 56         | 20.0                  | 0.70 | 1.4                  | 25000. | 0.150  | 3375000. | 0.200 |
| 57         | 20.0                  | 0.76 | 0.3                  | 25000. | 0.150  | 3645000. | 0.300 |
| 58         | 20.0                  | 0.75 | 0.7                  | 25000. | 0.100  | 2403000. | 0.300 |
| 59         | 20.0                  | 0.76 | 1.7                  | 25000. | 0.150  | 3645000. | 0.300 |
| 60         | 25.0                  | 0.75 | 1.4                  | 25000. | 0.100  | 2403000. | 0.250 |
| 61         | 25.0                  | 0.75 | 1.5                  | 25000. | 0.100  | 2403000. | 0.250 |
| 62         | 30.0                  | 0.75 | 0.9                  | 25000. | 0.050  | 1188000. | 0.200 |
| 63         | 29.0                  | 0.75 | 0.6                  | 26000. | 0.050  | 1144000. | 0.300 |
| 64         | 29.0                  | 0.75 | 1.5                  | 25000. | 0.050  | 1188000. | 0.250 |
| 65         | 20.0                  | 0.80 | 0.0                  | 25000. | 0.100  | 2581000. | 0.500 |
| 66         | 20.0                  | 0.80 | 1.0                  | 25000. | 0.050  | 1276000. | 0.500 |
| 67         | 20.0                  | 0.80 | 2.1                  | 25000. | 0.200  | 5249000. | 0.400 |

Flight 24 Inboard station data

| Test point | Equivalent sweep, deg | Mach | Angle of attack, deg | hp, ft | (x/c)T | RnT      | AG    |
|------------|-----------------------|------|----------------------|--------|--------|----------|-------|
| 1          | 20.0                  | 0.60 | 1.0                  | 10000. | 0.150  | 4860000. | 0.200 |
| 2          | 20.0                  | 0.60 | 1.1                  | 10000. | 0.100  | 3204000. | 0.200 |
| 3          | 20.0                  | 0.61 | 2.9                  | 9700.  | 0.150  | 4995000. | 0.040 |
| 4          | 20.0                  | 0.61 | 1.2                  | 10000. | 0.150  | 4860000. | 0.200 |
| 5          | 25.0                  | 0.61 | 1.3                  | 10000. | 0.100  | 3204000. | 0.060 |
| 6          | 25.0                  | 0.60 | 0.1                  | 9800.  | 0.080  | 2556000. | 0.250 |
| 7          | 25.0                  | 0.60 | 0.6                  | 10000. | 0.080  | 2485000. | 0.250 |
| 8          | 25.0                  | 0.60 | 1.5                  | 9900.  | 0.100  | 3204000. | 0.060 |
| 9          | 25.0                  | 0.70 | 0.2                  | 10000. | 0.050  | 1848000. | 0.250 |
| 10         | 25.0                  | 0.70 | 0.5                  | 9900.  | 0.050  | 1848000. | 0.250 |
| 11         | 25.0                  | 0.70 | 1.4                  | 10000. | 0.050  | 1848000. | 0.200 |
| 12         | 20.0                  | 0.70 | -0.1                 | 10000. | 0.100  | 3738000. | 0.250 |
| 13         | 20.0                  | 0.70 | 0.0                  | 10000. | 0.250  | 9618000. | 0.250 |
| 14         | 20.0                  | 0.70 | 0.4                  | 10000. | 0.200  | 7602000. | 0.250 |
| 15         | 20.0                  | 0.70 | 1.4                  | 10000. | 0.100  | 3738000. | 0.200 |
| 16         | 20.0                  | 0.71 | 0.9                  | 20000. | 0.250  | 6870000. | 0.250 |
| 17         | 20.0                  | 0.70 | 1.2                  | 20000. | 0.250  | 6870000. | 0.200 |
| 18         | 20.0                  | 0.71 | 0.4                  | 21000. | 0.250  | 6641000. | 0.250 |
| 19         | 20.0                  | 0.70 | 1.5                  | 20000. | 0.250  | 6870000. | 0.200 |
| 20         | 25.0                  | 0.70 | 0.9                  | 20000. | 0.100  | 2670000. | 0.250 |
| 21         | 25.0                  | 0.70 | 0.5                  | 21000. | 0.100  | 2581000. | 0.250 |
| 22         | 25.0                  | 0.70 | 1.4                  | 20000. | 0.100  | 2670000. | 0.200 |
| 23         | 30.0                  | 0.70 | 1.3                  | 20000. | 0.050  | 1320000. | 0.200 |
| 24         | 30.0                  | 0.70 | 0.6                  | 20000. | 0.050  | 1320000. | 0.200 |
| 25         | 30.0                  | 0.70 | 1.6                  | 20000. | 0.050  | 1320000. | 0.200 |
| 26         | 30.0                  | 0.75 | 0.7                  | 20000. | 0.050  | 1408000. | 0.300 |
| 27         | 30.0                  | 0.75 | 1.5                  | 20000. | 0.050  | 1408000. | 0.200 |
| 28         | 25.0                  | 0.75 | 0.6                  | 20000. | 0.050  | 1408000. | 0.250 |
| 29         | 25.0                  | 0.76 | 0.5                  | 20000. | 0.050  | 1408000. | 0.250 |
| 30         | 25.0                  | 0.75 | 1.5                  | 20000. | 0.050  | 1408000. | 0.250 |
| 31         | 20.0                  | 0.75 | 0.3                  | 20000. | 0.225  | 6400000. | 0.250 |
| 32         | 20.0                  | 0.75 | 0.4                  | 20000. | 0.100  | 2848000. | 0.300 |
| 33         | 20.0                  | 0.75 | 0.6                  | 20000. | 0.200  | 5792000. | 0.300 |
| 34         | 20.0                  | 0.75 | 1.6                  | 20000. | 0.225  | 6400000. | 0.300 |
| 35         | 20.0                  | 0.81 | -0.1                 | 20000. | 0.050  | 1540000. | 0.500 |
| 36         | 20.0                  | 0.81 | -0.1                 | 20000. | 0.300  | 9695000. | 0.500 |
| 37         | 20.0                  | 0.80 | 0.6                  | 20000. | 0.100  | 3026000. | 0.500 |
| 38         | 20.0                  | 0.80 | 1.5                  | 20000. | 0.050  | 1496000. | 0.500 |
| 39         | 25.0                  | 0.81 | 0.1                  | 20000. | 0.050  | 1540000. | 0.500 |
| 40         | 25.0                  | 0.80 | 0.9                  | 20000. | 0.050  | 1540000. | 0.350 |
| 41         | 30.0                  | 0.80 | 0.5                  | 20000. | 0.050  | 1540000. | 0.300 |
| 42         | 30.0                  | 0.80 | 0.4                  | 21000. | 0.050  | 1452000. | 0.300 |
| 43         | 30.0                  | 0.80 | 1.1                  | 20000. | 0.050  | 1496000. | 0.400 |
| 44         | 30.0                  | 0.80 | 0.9                  | 25000. | 0.050  | 1276000. | 0.350 |
| 45         | 30.0                  | 0.81 | 1.1                  | 25000. | 0.050  | 1276000. | 0.450 |
| 46         | 30.0                  | 0.80 | 2.0                  | 25000. | 0.050  | 1276000. | 0.300 |
| 47         | 25.0                  | 0.80 | 0.2                  | 25000. | 0.050  | 1276000. | 0.300 |
| 48         | 25.0                  | 0.80 | 1.0                  | 25000. | 0.050  | 1276000. | 0.400 |
| 49         | 25.0                  | 0.80 | 2.0                  | 25000. | 0.050  | 1276000. | 0.500 |



Flight 24 Inboard station data

| Test point | Equivalent sweep, deg | Mach | Angle of attack, deg | hp, ft | (x/c)T | RnT       | AG    |
|------------|-----------------------|------|----------------------|--------|--------|-----------|-------|
| 50         | 20.0                  | 0.80 | 0.3                  | 25000. | 0.100  | 2581000.  | 0.500 |
| 51         | 20.0                  | 0.80 | 0.4                  | 25000. | 0.400  | 10875000. | 0.500 |
| 52         | 20.0                  | 0.80 | 1.3                  | 25000. | 0.250  | 6641000.  | 0.500 |
| 53         | 20.0                  | 0.80 | 2.1                  | 25000. | 0.250  | 6641000.  | 0.450 |
| 54         | 20.0                  | 0.75 | 0.8                  | 25000. | 0.250  | 6183000.  | 0.300 |
| 55         | 20.0                  | 0.75 | 0.9                  | 25000. | 0.350  | 8775000.  | 0.300 |
| 56         | 20.0                  | 0.75 | 0.5                  | 26000. | 0.300  | 7202000.  | 0.300 |
| 57         | 20.0                  | 0.76 | 1.6                  | 25000. | 0.300  | 7479000.  | 0.300 |
| 58         | 25.0                  | 0.76 | 1.0                  | 25000. | 0.050  | 1188000.  | 0.250 |
| 59         | 25.0                  | 0.75 | 1.5                  | 25000. | 0.050  | 1188000.  | 0.250 |
| 60         | 30.0                  | 0.75 | 1.3                  | 25000. | 0.050  | 1188000.  | 0.200 |
| 61         | 30.0                  | 0.76 | 0.6                  | 25000. | 0.050  | 1188000.  | 0.200 |
| 62         | 30.0                  | 0.75 | 1.8                  | 25000. | 0.050  | 1188000.  | 0.250 |
| 63         | 30.0                  | 0.70 | 1.8                  | 25000. | 0.050  | 1100000.  | 0.060 |
| 64         | 30.0                  | 0.70 | 0.5                  | 25000. | 0.050  | 1100000.  | 0.250 |
| 65         | 30.0                  | 0.70 | 1.9                  | 25000. | 0.050  | 1100000.  | 0.040 |
| 66         | 25.0                  | 0.70 | 1.3                  | 25000. | 0.250  | 5725000.  | 0.200 |
| 67         | 25.0                  | 0.71 | 0.5                  | 26000. | 0.250  | 5725000.  | 0.200 |
| 68         | 20.0                  | 0.70 | 0.8                  | 25000. | 0.300  | 6925000.  | 0.200 |
| 69         | 20.0                  | 0.70 | 1.2                  | 25000. | 0.250  | 5725000.  | 0.200 |
| 70         | 20.0                  | 0.70 | 0.5                  | 25000. | 0.300  | 6925000.  | 0.200 |
| 71         | 20.0                  | 0.71 | 1.5                  | 25000. | 0.250  | 5725000.  | 0.200 |
| 72         | 20.0                  | 0.79 | 1.9                  | 35000. | 0.450  | 8500000.  | 0.450 |
| 73         | 20.0                  | 0.80 | 1.4                  | 35000. | 0.450  | 8500000.  | 0.500 |

Flight 26 Middle station data

| Test point | Equivalent sweep, deg | Mach | Angle of attack, deg | hp, ft | (x/c)T | RnT      | AG    |
|------------|-----------------------|------|----------------------|--------|--------|----------|-------|
| 1          | 20.0                  | 0.71 | 3.7                  | 35000. | 0.200  | 2533000. | 0.060 |
| 2          | 20.0                  | 0.71 | 0.2                  | 35000. | 0.420  | 5508000. | 0.350 |
| 3          | 20.0                  | 0.75 | 3.9                  | 33000. | 0.450  | 6980000. | 0.350 |
| 4          | 20.0                  | 0.70 | 1.1                  | 35000. | 0.400  | 5219000. | 0.350 |
| 5          | 25.0                  | 0.70 | 4.2                  | 35000. | 0.150  | 1887000. | 0.175 |
| 6          | 25.0                  | 0.70 | 0.3                  | 35000. | 0.350  | 4539000. | 0.350 |
| 7          | 25.0                  | 0.70 | 1.1                  | 36000. | 0.350  | 4272000. | 0.350 |
| 8          | 30.0                  | 0.70 | 4.3                  | 35000. | 0.120  | 1496000. | 0.040 |
| 9          | 30.0                  | 0.71 | 0.1                  | 35000. | 0.350  | 4539000. | 0.350 |
| 10         | 30.0                  | 0.71 | 1.2                  | 35000. | 0.400  | 5219000. | 0.350 |
| 11         | 35.0                  | 0.70 | 5.0                  | 35000. | 0.080  | 986000.  | 0.040 |
| 12         | 35.0                  | 0.70 | 0.1                  | 35000. | 0.100  | 1241000. | 0.350 |
| 13         | 35.0                  | 0.70 | 1.3                  | 35000. | 0.350  | 4539000. | 0.350 |
| 14         | 35.0                  | 0.76 | 3.7                  | 35000. | ****   | *****    | 0.080 |
| 15         | 35.0                  | 0.75 | 0.3                  | 34000. | ****   | *****    | 0.350 |
| 16         | 35.0                  | 0.75 | 1.1                  | 35000. | 0.050  | 684000.  | 0.250 |
| 17         | 30.0                  | 0.75 | 3.3                  | 35000. | 0.200  | 2682000. | 0.060 |
| 18         | 30.0                  | 0.76 | 3.6                  | 35000. | 0.250  | 3553000. | 0.250 |
| 19         | 30.0                  | 0.76 | 0.3                  | 36000. | 0.150  | 1998000. | 0.250 |
| 20         | 30.0                  | 0.76 | 3.8                  | 35000. | 0.150  | 2109000. | 0.100 |
| 21         | 30.0                  | 0.74 | 1.0                  | 36000. | 0.325  | 4199000. | 0.250 |
| 22         | 30.0                  | 0.74 | 1.1                  | 36000. | 0.350  | 4806000. | 0.250 |
| 23         | 30.0                  | 0.77 | 0.3                  | 35000. | 0.100  | 1387000. | 0.350 |
| 24         | 25.0                  | 0.75 | 2.7                  | 35000. | 0.400  | 5526000. | 0.300 |
| 25         | 25.0                  | 0.75 | 0.3                  | 35000. | 0.400  | 5526000. | 0.350 |
| 26         | 25.0                  | 0.79 | 2.2                  | 35000. | 0.420  | 6480000. | 0.500 |
| 27         | 25.0                  | 0.76 | 1.1                  | 36000. | 0.400  | 5526000. | 0.250 |
| 28         | 25.0                  | 0.77 | 3.3                  | 37000. | 0.450  | 5933000. | 0.300 |
| 29         | 25.0                  | 0.75 | 3.1                  | 36000. | 0.350  | 4539000. | 0.300 |

## Flight 27 Middle station data

| Test point | Equivalent sweep, deg | Mach | Angle of attack, deg | hp, ft | (X/c)T | Rn1      | AG    |
|------------|-----------------------|------|----------------------|--------|--------|----------|-------|
| 1          | 30.0                  | 0.80 | 0.9                  | 25000. | 0.050  | 1044000. | 0.350 |
| 2          | 30.0                  | 0.80 | 1.7                  | 25000. | 0.050  | 1080000. | 0.450 |
| 3          | 25.0                  | 0.80 | 0.7                  | 25000. | 0.100  | 2117000. | 0.500 |
| 4          | 25.0                  | 0.80 | 1.1                  | 25000. | 0.100  | 2190000. | 0.450 |
| 5          | 25.0                  | 0.81 | 1.9                  | 25000. | 0.100  | 2117000. | 0.450 |
| 6          | 20.0                  | 0.80 | 1.1                  | 25000. | 0.300  | 6583000. | 0.500 |
| 7          | 20.0                  | 0.80 | 1.1                  | 25000. | 0.300  | 6583000. | 0.500 |
| 8          | 20.0                  | 0.80 | 0.5                  | 25000. | 0.250  | 5423000. | 0.500 |
| 9          | 20.0                  | 0.81 | 1.9                  | 26000. | 0.350  | 7743000. | 0.400 |
| 10         | 20.0                  | 0.81 | 1.5                  | 24000. | 0.300  | 7037000. | 0.400 |
| 11         | 30.0                  | 0.70 | 1.1                  | 20000. | 0.050  | 1080000. | 0.200 |
| 12         | 30.0                  | 0.71 | 1.3                  | 20000. | 0.050  | 1116000. | 0.200 |
| 13         | 30.0                  | 0.71 | 0.9                  | 20000. | 0.050  | 1080000. | 0.200 |
| 14         | 30.0                  | 0.71 | 1.2                  | 20000. | 0.050  | 1116000. | 0.200 |
| 15         | 25.0                  | 0.70 | 0.6                  | 20000. | 0.100  | 2190000. | 0.200 |
| 16         | 25.0                  | 0.70 | 1.8                  | 20000. | 0.100  | 2190000. | 0.200 |
| 17         | 20.0                  | 0.70 | 0.2                  | 20000. | 0.320  | 7410000. | 0.200 |
| 18         | 20.0                  | 0.71 | 0.6                  | 20000. | 0.300  | 6810000. | 0.200 |
| 19         | 20.0                  | 0.70 | 0.0                  | 20000. | 0.300  | 6583000. | 0.250 |
| 20         | 20.0                  | 0.80 | 1.3                  | 35000. | 0.500  | 7820000. | 0.500 |
| 21         | 20.0                  | 0.80 | 1.9                  | 35000. | 0.450  | 6980000. | 0.400 |
| 22         | 20.0                  | 0.81 | 0.6                  | 35000. | 0.450  | 6980000. | 0.500 |
| 23         | 25.0                  | 0.80 | 1.9                  | 35000. | 0.400  | 6140000. | 0.450 |
| 24         | 25.0                  | 0.81 | 0.7                  | 36000. | 0.300  | 4313000. | 0.500 |
| 25         | 25.0                  | 0.80 | 2.6                  | 35000. | 0.450  | 6980000. | 0.300 |
| 26         | 30.0                  | 0.81 | 2.1                  | 35000. | 0.050  | 720000.  | 0.450 |
| 27         | 30.0                  | 0.80 | 1.0                  | 35000. | 0.100  | 1460000. | 0.300 |
| 28         | 35.0                  | 0.80 | 2.1                  | 35000. | 0.050  | 720000.  | 0.300 |
| 29         | 35.0                  | 0.79 | 0.9                  | 35000. | 0.050  | 684000.  | 0.250 |
| 30         | 35.0                  | 0.80 | 1.8                  | 35000. | 0.050  | 720000.  | 0.125 |
| 31         | 35.0                  | 0.83 | 2.2                  | 35000. | 0.050  | 720000.  | 0.500 |
| 32         | 30.0                  | 0.83 | 1.2                  | 35000. | 0.100  | 1460000. | 0.300 |
| 33         | 20.0                  | 0.75 | 0.4                  | 25000. | 0.300  | 6123000. | 0.300 |

Flight 28 Middle station data

| Test point | Equivalent sweep, deg | Mach | Angle of attack, deg | hp, ft | (x/c)T | RnT      | AG    |
|------------|-----------------------|------|----------------------|--------|--------|----------|-------|
| 1          | 20.0                  | 0.80 | 2.2                  | 35000. | 0.450  | 6980000. | 0.400 |
| 2          | 20.0                  | 0.80 | 2.5                  | 35000. | 0.500  | 7820000. | 0.400 |
| 3          | 20.0                  | 0.80 | 0.5                  | 34000. | 0.500  | 8211000. | 0.500 |
| 4          | 20.0                  | 0.80 | 1.5                  | 34000. | 0.250  | 3927000. | 0.450 |
| 5          | 25.0                  | 0.81 | 1.9                  | 35000. | 0.300  | 4540000. | 0.500 |
| 6          | 25.0                  | 0.80 | 0.7                  | 35000. | 0.200  | 2980000. | 0.500 |
| 7          | 25.0                  | 0.28 | 1.7                  | 26000. | 0.200  | 1355900. | 0.500 |
| 8          | 30.0                  | 0.80 | 2.5                  | 35000. | 0.100  | 1460000. | 0.400 |
| 9          | 30.0                  | 0.80 | 0.9                  | 35000. | 0.100  | 1460000. | 0.350 |
| 10         | 35.0                  | 0.81 | 2.9                  | 35000. | 0.050  | 720000.  | 0.400 |
| 11         | 35.0                  | 0.80 | 0.6                  | 34000. | 0.050  | 720000.  | 0.350 |
| 12         | 35.0                  | 0.80 | 1.8                  | 36000. | 0.050  | 720000.  | 0.300 |
| 13         | 25.0                  | 0.80 | 0.3                  | 25000. | 0.050  | 1044000. | 0.400 |
| 14         | 25.0                  | 0.80 | 1.5                  | 26000. | 0.050  | 1008000. | 0.450 |
| 15         | 20.0                  | 0.80 | 0.0                  | 25000. | 0.050  | 1044000. | 0.500 |
| 16         | 20.0                  | 0.80 | 0.6                  | 25000. | 0.050  | 1044000. | 0.500 |
| 17         | 20.0                  | 0.80 | 0.3                  | 25000. | 0.200  | 4321000. | 0.500 |
| 18         | 27.0                  | 0.70 | 1.7                  | 25000. | 0.200  | 3725000. | 0.200 |
| 19         | 27.0                  | 0.70 | 1.5                  | 23000. | 0.050  | 972000.  | 0.200 |
| 20         | 31.0                  | 0.71 | 1.9                  | 25000. | 0.050  | 900000.  | 0.060 |
| 21         | 31.0                  | 0.70 | 2.4                  | 25000. | 0.050  | 900000.  | 0.040 |
| 22         | 20.0                  | 0.70 | 0.4                  | 20000. | 0.050  | 1080000. | 0.200 |
| 23         | 20.0                  | 0.70 | 0.4                  | 21000. | 0.100  | 2044000. | 0.250 |
| 24         | 20.0                  | 0.80 | 0.2                  | 25000. | 0.050  | 1044000. | 0.500 |
| 25         | 20.0                  | 0.80 | 0.1                  | 25000. | 0.050  | 1044000. | 0.500 |
| 26         | 20.0                  | 0.80 | 0.3                  | 25000. | 0.050  | 1044000. | 0.500 |
| 27         | 20.0                  | 0.80 | 2.4                  | 25000. | 0.250  | 5423000. | 0.300 |
| 28         | 20.0                  | 0.75 | 0.7                  | 25000. | 0.200  | 4023000. | 0.300 |
| 29         | 20.0                  | 0.75 | 0.5                  | 25000. | 0.050  | 972000.  | 0.250 |
| 30         | 20.0                  | 0.75 | 0.7                  | 26000. | 0.400  | 7982000. | 0.300 |
| 31         | 20.0                  | 0.76 | 1.5                  | 25000. | 0.050  | 972000.  | 0.300 |
| 32         | 25.0                  | 0.75 | 1.2                  | 25000. | 0.050  | 972000.  | 0.250 |
| 33         | 25.0                  | 0.75 | 0.7                  | 25000. | 0.080  | 1566000. | 0.350 |
| 34         | 25.0                  | 0.75 | 0.5                  | 26000. | 0.050  | 936000.  | 0.250 |
| 35         | 25.0                  | 0.75 | 1.4                  | 25000. | 0.050  | 972000.  | 0.200 |
| 36         | 30.0                  | 0.75 | 1.0                  | 25000. | 0.050  | 972000.  | 0.200 |
| 37         | 30.0                  | 0.75 | 1.0                  | 25000. | 0.050  | 972000.  | 0.200 |
| 38         | 30.0                  | 0.75 | 0.8                  | 25000. | 0.050  | 972000.  | 0.200 |
| 39         | 30.0                  | 0.75 | 1.8                  | 25000. | 0.050  | 972000.  | 0.200 |
| 40         | 35.0                  | 0.75 | 1.2                  | 25000. | 0.050  | 972000.  | 0.200 |
| 41         | 35.0                  | 0.75 | 1.2                  | 25000. | 0.050  | 972000.  | 0.200 |
| 42         | 36.0                  | 0.75 | 0.5                  | 26000. | 0.050  | 936000.  | 0.200 |
| 43         | 36.0                  | 0.76 | 1.6                  | 25000. | 0.050  | 972000.  | 0.200 |

Flight 29 Middle station data

| Test point | Equivalent sweep, deg | Mach | Angle of attack, deg | hp, ft | (x/c)T | RnT       | AG    |
|------------|-----------------------|------|----------------------|--------|--------|-----------|-------|
| 1          | 23.0                  | 0.60 | 1.1                  | 10000. | 0.100  | 2555000.  | 0.200 |
| 2          | 23.0                  | 0.60 | 0.2                  | 10000. | 0.100  | 2555000.  | 0.250 |
| 3          | 25.0                  | 0.70 | 0.1                  | 10000. | 0.050  | 1512000.  | 0.250 |
| 4          | 25.0                  | 0.70 | 0.5                  | 10000. | 0.050  | 1476000.  | 0.250 |
| 5          | 25.0                  | 0.70 | 0.4                  | 10000. | 0.050  | 1476000.  | 0.250 |
| 6          | 20.0                  | 0.70 | -0.1                 | 10000. | 0.100  | 2993000.  | 0.250 |
| 7          | 20.0                  | 0.69 | -0.1                 | 10000. | 0.150  | 4551000.  | 0.250 |
| 8          | 20.0                  | 0.71 | 0.4                  | 10000. | 0.120  | 3696000.  | 0.250 |
| 9          | 20.0                  | 0.71 | 0.5                  | 11000. | 0.150  | 4551000.  | 0.250 |
| 10         | 25.0                  | 0.70 | 1.0                  | 20000. | 0.100  | 2190000.  | 0.200 |
| 11         | 25.0                  | 0.70 | 1.4                  | 20000. | 0.120  | 2640000.  | 0.200 |
| 12         | 30.0                  | 0.71 | 1.2                  | 20000. | 0.050  | 1080000.  | 0.200 |
| 13         | 30.0                  | 0.70 | 0.5                  | 20000. | 0.050  | 1080000.  | 0.200 |
| 14         | 30.0                  | 0.71 | 1.9                  | 20000. | 0.050  | 1080000.  | 0.200 |
| 15         | 20.0                  | 0.80 | -0.2                 | 20000. | 0.100  | 2482000.  | 0.500 |
| 16         | 20.0                  | 0.81 | 0.1                  | 20000. | 0.500  | 13685000. | 0.500 |
| 17         | 20.0                  | 0.81 | 0.1                  | 20000. | 0.500  | 13685000. | 0.500 |
| 18         | 20.0                  | 0.80 | 0.5                  | 21000. | 0.120  | 2992000.  | 0.500 |
| 19         | 20.0                  | 0.81 | 0.6                  | 20000. | 0.475  | 12950000. | 0.500 |
| 20         | 20.0                  | 0.80 | 0.2                  | 20000. | 0.120  | 3080000.  | 0.500 |
| 21         | 30.0                  | 0.80 | 1.1                  | 25000. | 0.050  | 1044000.  | 0.400 |
| 22         | 30.0                  | 0.80 | 1.8                  | 25000. | 0.050  | 1044000.  | 0.450 |
| 23         | 35.0                  | 0.79 | 0.9                  | 24000. | 0.050  | 1044000.  | 0.350 |

Flight 30 Middle station data

| Test point | Equivalent sweep, deg | Mach | Angle of attack, deg | hp, ft | (x/c)T | RnT      | AG    |
|------------|-----------------------|------|----------------------|--------|--------|----------|-------|
| 1          | 20.0                  | 0.71 | -0.2                 | 10000. | 0.120  | 3696000. | 0.250 |
| 2          | 20.0                  | 0.70 | -0.1                 | 10000. | 0.120  | 3696000. | 0.250 |
| 3          | 25.0                  | 0.70 | 1.1                  | 20000. | 0.120  | 2640000. | 0.200 |
| 4          | 25.0                  | 0.70 | 1.0                  | 20000. | 0.120  | 2640000. | 0.200 |
| 5          | 25.0                  | 0.70 | 1.4                  | 20000. | 0.120  | 2640000. | 0.200 |
| 6          | 25.0                  | 0.70 | 1.5                  | 20000. | 0.120  | 2640000. | 0.200 |
| 7          | 20.0                  | 0.75 | 0.3                  | 20000. | 0.150  | 3663000. | 0.300 |
| 8          | 20.0                  | 0.75 | 0.3                  | 20000. | 0.150  | 3552000. | 0.250 |
| 9          | 20.0                  | 0.80 | -0.2                 | 20000. | 0.100  | 2555000. | 0.500 |
| 10         | 20.0                  | 0.80 | -0.2                 | 20000. | 0.100  | 2555000. | 0.500 |
| 11         | 25.0                  | 0.80 | 0.0                  | 20000. | 0.050  | 1260000. | 0.500 |
| 12         | 25.0                  | 0.80 | 0.0                  | 20000. | 0.050  | 1260000. | 0.450 |
| 13         | 25.0                  | 0.70 | 1.5                  | 25000. | 0.300  | 5675000. | 0.200 |
| 14         | 25.0                  | 0.70 | 1.6                  | 25000. | 0.300  | 5675000. | 0.200 |
| 15         | 30.0                  | 0.70 | 2.0                  | 25000. | 0.050  | 900000.  | 0.040 |
| 16         | 30.0                  | 0.70 | 2.2                  | 25000. | 0.050  | 900000.  | 0.040 |
| 17         | 35.0                  | 0.70 | 2.2                  | 25000. | 0.050  | 900000.  | 0.040 |
| 18         | 35.0                  | 0.70 | 2.4                  | 25000. | 0.050  | 900000.  | 0.040 |
| 19         | 30.0                  | 0.80 | 2.6                  | 35000. | 0.050  | 720000.  | 0.300 |
| 20         | 30.0                  | 0.80 | 2.3                  | 35000. | 0.100  | 1460000. | 0.300 |
| 21         | 25.0                  | 0.80 | 2.0                  | 35000. | 0.400  | 6140000. | 0.500 |
| 22         | 25.0                  | 0.79 | 2.0                  | 35000. | 0.500  | 7820000. | 0.450 |
| 23         | 20.0                  | 0.80 | 0.6                  | 30000. | 0.450  | 8376000. | 0.500 |
| 24         | 20.0                  | 0.80 | 0.8                  | 30000. | 0.450  | 8376000. | 0.500 |
| 25         | 20.0                  | 0.80 | 1.1                  | 30000. | 0.525  | 9888000. | 0.500 |
| 26         | 20.0                  | 0.80 | 0.5                  | 30000. | 0.400  | 7368000. | 0.500 |
| 27         | 20.0                  | 0.81 | 1.5                  | 30000. | 0.500  | 9384000. | 0.450 |
| 28         | 25.0                  | 0.80 | 1.0                  | 30000. | 0.100  | 1752000. | 0.400 |
| 29         | 25.0                  | 0.80 | 0.1                  | 30000. | 0.100  | 1752000. | 0.450 |
| 30         | 25.0                  | 0.82 | 1.6                  | 30000. | 0.200  | 3725000. | 0.500 |
| 31         | 30.0                  | 0.81 | 1.0                  | 30000. | 0.050  | 864000.  | 0.400 |
| 32         | 30.0                  | 0.80 | 0.6                  | 30000. | 0.050  | 900000.  | 0.350 |
| 33         | 30.0                  | 0.80 | 2.0                  | 30000. | 0.050  | 864000.  | 0.450 |
| 34         | 35.0                  | 0.81 | 1.3                  | 30000. | 0.050  | 864000.  | 0.300 |
| 35         | 35.0                  | 0.81 | 0.6                  | 30000. | 0.050  | 900000.  | 0.400 |
| 36         | 35.0                  | 0.81 | 1.9                  | 30000. | 0.050  | 900000.  | 0.400 |

Flight 31 Middle station data

| Test point | Equivalent sweep, deg | Mach | Angle of attack, deg | hp, ft | (x/c)T | RnT      | AG    |
|------------|-----------------------|------|----------------------|--------|--------|----------|-------|
| 1          | 35.0                  | 0.70 | 4.9                  | 35000. | 0.100  | 1241000. | 0.040 |
| 2          | 35.0                  | 0.70 | 0.1                  | 35000. | 0.100  | 1241000. | 0.500 |
| 3          | 35.0                  | 0.70 | 1.6                  | 35000. | 0.100  | 1241000. | 0.250 |
| 4          | 30.0                  | 0.70 | 4.5                  | 35000. | 0.100  | 1241000. | 0.060 |
| 5          | 30.0                  | 0.71 | 0.2                  | 35000. | 0.250  | 3179000. | 0.400 |
| 6          | 30.0                  | 0.71 | 1.4                  | 35000. | 0.350  | 4539000. | 0.250 |
| 7          | 25.0                  | 0.70 | 4.1                  | 35000. | 0.150  | 1887000. | 0.060 |
| 8          | 25.0                  | 0.70 | 0.2                  | 35000. | 0.450  | 5933000. | 0.400 |
| 9          | 25.0                  | 0.70 | 1.2                  | 35000. | 0.400  | 5219000. | 0.200 |
| 10         | 20.0                  | 0.70 | 3.4                  | 35000. | 0.200  | 2533000. | 0.080 |
| 11         | 20.0                  | 0.70 | 0.7                  | 35000. | 0.400  | 5219000. | 0.250 |
| 12         | 20.0                  | 0.70 | 1.6                  | 35000. | 0.400  | 5219000. | 0.250 |
| 13         | 20.0                  | 0.76 | 2.8                  | 35000. | 0.500  | 7038000. | 0.400 |
| 14         | 20.0                  | 0.76 | 0.3                  | 35000. | 0.450  | 6631000. | 0.350 |
| 15         | 20.0                  | 0.75 | 1.2                  | 35000. | 0.400  | 5526000. | 0.500 |
| 16         | 25.0                  | 0.75 | 2.9                  | 35000. | 0.400  | 5833000. | 0.500 |
| 17         | 25.0                  | 0.76 | 0.5                  | 35000. | 0.400  | 5833000. | 0.300 |
| 18         | 25.0                  | 0.76 | 1.1                  | 35000. | 0.400  | 5833000. | 0.350 |
| 19         | 30.0                  | 0.75 | 3.7                  | 35000. | 0.250  | 3366000. | 0.060 |
| 20         | 30.0                  | 0.75 | 0.3                  | 35000. | 0.100  | 1314000. | 0.400 |
| 21         | 30.0                  | 0.76 | 1.2                  | 35000. | 0.300  | 4313000. | 0.250 |
| 22         | 35.0                  | 0.75 | 3.8                  | 35000. | 0.050  | 684000.  | 0.060 |
| 23         | 35.0                  | 0.76 | -0.2                 | 35000. | 0.050  | 684000.  | 0.400 |
| 24         | 35.0                  | 0.80 | 3.1                  | 35000. | 0.050  | 720000.  | 0.080 |
| 25         | 35.0                  | 0.81 | 0.0                  | 35000. | 0.050  | 720000.  | 0.300 |
| 26         | 30.0                  | 0.80 | 1.9                  | 35000. | 0.100  | 1460000. | 0.400 |
| 27         | 30.0                  | 0.81 | 0.7                  | 35000. | 0.100  | 1460000. | 0.400 |
| 28         | 25.0                  | 0.80 | 2.0                  | 35000. | 0.500  | 7820000. | 0.450 |
| 29         | 25.0                  | 0.80 | 1.0                  | 35000. | 0.350  | 5340000. | 0.500 |
| 30         | 25.0                  | 0.80 | 1.6                  | 35000. | 0.400  | 6140000. | 0.500 |
| 31         | 20.0                  | 0.81 | 2.7                  | 35000. | 0.525  | 8240000. | 0.400 |
| 32         | 20.0                  | 0.80 | 0.0                  | 35000. | 0.525  | 8240000. | 0.450 |
| 33         | 20.0                  | 0.80 | 1.0                  | 35000. | 0.525  | 8240000. | 0.500 |
| 34         | 20.0                  | 0.80 | 0.8                  | 30000. | 0.500  | 9384000. | 0.500 |
| 35         | 20.0                  | 0.80 | 1.1                  | 30000. | 0.525  | 9888000. | 0.400 |
| 36         | 20.0                  | 0.80 | 1.5                  | 30000. | 0.525  | 9888000. | 0.450 |
| 37         | 20.0                  | 0.80 | 1.6                  | 30000. | 0.525  | 9888000. | 0.400 |
| 38         | 25.0                  | 0.80 | 0.7                  | 30000. | 0.200  | 3576000. | 0.500 |
| 39         | 25.0                  | 0.80 | 1.9                  | 30000. | 0.350  | 6408000. | 0.500 |
| 40         | 25.0                  | 0.75 | 1.4                  | 30000. | 0.400  | 7061000. | 0.350 |
| 41         | 25.0                  | 0.76 | 0.5                  | 30000. | 0.300  | 5221000. | 0.300 |
| 42         | 20.0                  | 0.76 | 1.2                  | 30000. | 0.450  | 8027000. | 0.300 |
| 43         | 20.0                  | 0.75 | 1.8                  | 30000. | 0.450  | 8027000. | 0.400 |
| 44         | 20.0                  | 0.75 | 0.5                  | 30000. | 0.450  | 8027000. | 0.350 |
| 45         | 20.0                  | 0.75 | 0.5                  | 30000. | 0.450  | 8027000. | 0.500 |
| 46         | 20.0                  | 0.70 | 1.3                  | 25000. | 0.300  | 5675000. | 0.250 |
| 47         | 20.0                  | 0.70 | 1.6                  | 25000. | 0.300  | 5675000. | 0.250 |
| 48         | 20.0                  | 0.69 | 0.5                  | 25000. | 0.150  | 2775000. | 0.250 |
| 49         | 20.0                  | 0.71 | 0.7                  | 25000. | 0.150  | 6675000. | 0.250 |

Flight 31 Middle station data

| Test point | Equivalent sweep, deg | Mach | Angle of attack, deg | hp, ft | (x/c)T | Rn1'      | AG    |
|------------|-----------------------|------|----------------------|--------|--------|-----------|-------|
| 50         | 20.0                  | 0.80 | -0.2                 | 20000. | 0.100  | 2555000.  | 0.550 |
| 51         | 20.0                  | 0.80 | 0.1                  | 20000. | 0.350  | 9345000.  | 0.550 |
| 52         | 20.0                  | 0.80 | 0.1                  | 20000. | 0.100  | 2555000.  | 0.500 |
| 53         | 20.0                  | 0.79 | 0.5                  | 20000. | 0.400  | 10438000. | 0.500 |
| 54         | 20.0                  | 0.80 | 0.3                  | 20000. | 0.100  | 2555000.  | 0.500 |
| 55         | 20.0                  | 0.81 | 0.3                  | 20000. | 0.400  | 10745000. | 0.500 |
| 56         | 20.0                  | 0.76 | -0.2                 | 20000. | 0.150  | 3663000.  | 0.300 |
| 57         | 20.0                  | 0.75 | 0.1                  | 20000. | 0.350  | 8544000.  | 0.300 |



Flight 32 Middle station data

| Test point | Equivalent sweep, deg | Mach | Angle of attack, deg | hp, ft | (x/c)T | RnT       | AG    |
|------------|-----------------------|------|----------------------|--------|--------|-----------|-------|
| 50         | 20.0                  | 0.71 | 0.8                  | 25000. | 0.400  | 7675000.  | 0.250 |
| 51         | 28.0                  | 0.70 | 1.7                  | 25000. | 0.150  | 2775000.  | 0.250 |
| 52         | 28.0                  | 0.70 | 0.7                  | 26000. | 0.100  | 1825000.  | 0.250 |
| 53         | 32.0                  | 0.70 | 2.1                  | 25000. | 0.050  | 900000.   | 0.250 |
| 54         | 32.0                  | 0.71 | 1.3                  | 25000. | 0.050  | 900000.   | 0.250 |
| 55         | 32.0                  | 0.70 | 2.0                  | 25000. | 0.050  | 900000.   | 0.250 |
| 56         | 25.0                  | 0.75 | 0.6                  | 25000. | 0.100  | 1971000.  | 0.250 |
| 57         | 25.0                  | 0.75 | 0.5                  | 25000. | 0.100  | 1971000.  | 0.250 |
| 58         | 25.0                  | 0.76 | 1.6                  | 25000. | 0.150  | 2997000.  | 0.500 |
| 59         | 20.0                  | 0.75 | 0.3                  | 25000. | 0.325  | 8669000.  | 0.350 |
| 60         | 20.0                  | 0.75 | 0.9                  | 25000. | 0.350  | 7209000.  | 0.500 |
| 61         | 20.0                  | 0.75 | 1.9                  | 25000. | 0.300  | 6129000.  | 0.400 |
| 62         | 20.0                  | 0.76 | 1.5                  | 25000. | 0.450  | 9423000.  | 0.400 |
| 63         | 20.0                  | 0.75 | 0.6                  | 25000. | 0.350  | 7209000.  | 0.500 |
| 64         | 20.0                  | 0.80 | 0.0                  | 25000. | 0.120  | 2552000.  | 0.550 |
| 65         | 20.0                  | 0.81 | 0.3                  | 25000. | 0.525  | 11948000. | 0.550 |
| 66         | 20.0                  | 0.80 | 0.5                  | 25000. | 0.300  | 6583000.  | 0.500 |
| 67         | 20.0                  | 0.81 | 0.7                  | 25000. | 0.550  | 12557000. | 0.500 |
| 68         | 20.0                  | 0.80 | 1.9                  | 25000. | 0.300  | 6583000.  | 0.450 |
| 69         | 20.0                  | 0.81 | 1.7                  | 25000. | 0.525  | 11948000. | 0.450 |
| 70         | 25.0                  | 0.81 | 1.5                  | 25000. | 0.100  | 2117000.  | 0.500 |
| 71         | 25.0                  | 0.81 | 0.0                  | 25000. | 0.050  | 1044000.  | 0.500 |
| 72         | 25.0                  | 0.81 | 0.5                  | 25000. | 0.050  | 1044000.  | 0.500 |
| 73         | 31.0                  | 0.80 | 2.0                  | 25000. | 0.050  | 1044000.  | 0.400 |

Flight 32 Middle station data

| Test point | Equivalent sweep, deg | Mach | Angle of attack, deg | hp, ft | (x/c)T | RnT      | AG    |
|------------|-----------------------|------|----------------------|--------|--------|----------|-------|
| 1          | 35.0                  | 0.71 | 5.3                  | 35000. | 0.050  | 612000.  | 0.040 |
| 2          | 35.0                  | 0.71 | 0.4                  | 36000. | 0.050  | 576000.  | 0.400 |
| 3          | 35.0                  | 0.70 | 1.2                  | 35000. | 0.050  | 612000.  | 0.500 |
| 4          | 30.0                  | 0.70 | 4.6                  | 35000. | 0.100  | 1241000. | 0.060 |
| 5          | 30.0                  | 0.69 | 0.3                  | 34000. | 0.300  | 3859000. | 0.400 |
| 6          | 30.0                  | 0.70 | 1.1                  | 34000. | 0.350  | 4539000. | 0.400 |
| 7          | 25.0                  | 0.70 | 4.0                  | 35000. | 0.150  | 1887000. | 0.060 |
| 8          | 25.0                  | 0.69 | 0.1                  | 35000. | 0.400  | 4912000. | 0.500 |
| 9          | 25.0                  | 0.69 | 1.2                  | 35000. | 0.350  | 4272000. | 0.400 |
| 10         | 20.0                  | 0.70 | 3.7                  | 35000. | 0.200  | 2533000. | 0.040 |
| 11         | 20.0                  | 0.69 | 0.5                  | 35000. | 0.400  | 4912000. | 0.400 |
| 12         | 20.0                  | 0.70 | 1.4                  | 35000. | 0.400  | 4912000. | 0.250 |
| 13         | 20.0                  | 0.75 | 2.6                  | 35000. | 0.450  | 6282000. | 0.400 |
| 14         | 20.0                  | 0.74 | 0.1                  | 34000. | 0.400  | 5526000. | 0.400 |
| 15         | 20.0                  | 0.75 | 1.3                  | 35000. | 0.400  | 5526000. | 0.500 |
| 16         | 25.0                  | 0.75 | 2.8                  | 35000. | 0.350  | 4806000. | 0.500 |
| 17         | 25.0                  | 0.75 | 0.4                  | 35000. | 0.350  | 4539000. | 0.250 |
| 18         | 25.0                  | 0.74 | 1.0                  | 36000. | 0.350  | 4539000. | 0.250 |
| 19         | 30.0                  | 0.75 | 3.4                  | 35000. | 0.100  | 1314000. | 0.040 |
| 20         | 30.0                  | 0.76 | 0.1                  | 36000. | 0.100  | 1314000. | 0.400 |
| 21         | 30.0                  | 0.75 | 0.9                  | 36000. | 0.350  | 4539000. | 0.400 |
| 22         | 35.0                  | 0.75 | 3.7                  | 35000. | 0.050  | 648000.  | 0.060 |
| 23         | 36.0                  | 0.75 | -0.2                 | 35000. | 0.050  | 648000.  | 0.400 |
| 24         | 36.0                  | 0.80 | 2.9                  | 35000. | 0.050  | 720000.  | 0.100 |
| 25         | 36.0                  | 0.80 | 0.2                  | 36000. | 0.050  | 684000.  | 0.250 |
| 26         | 30.0                  | 0.80 | 2.3                  | 35000. | 0.100  | 1387000. | 0.400 |
| 27         | 30.0                  | 0.80 | 0.6                  | 35000. | 0.100  | 1387000. | 0.500 |
| 28         | 30.0                  | 0.80 | 1.7                  | 35000. | 0.100  | 1387000. | 0.400 |
| 29         | 25.0                  | 0.80 | 1.7                  | 35000. | 0.500  | 7429000. | 0.500 |
| 30         | 25.0                  | 0.81 | 0.7                  | 35000. | 0.200  | 2980000. | 0.500 |
| 31         | 25.0                  | 0.80 | 1.5                  | 34000. | 0.450  | 6980000. | 0.500 |
| 32         | 20.0                  | 0.80 | 1.8                  | 35000. | 0.525  | 7828000. | 0.450 |
| 33         | 20.0                  | 0.81 | 0.6                  | 35000. | 0.525  | 7828000. | 0.500 |
| 34         | 20.0                  | 0.80 | 1.5                  | 35000. | 0.525  | 8240000. | 0.500 |
| 35         | 20.0                  | 0.80 | 1.4                  | 30000. | 0.150  | 2664000. | 0.500 |
| 36         | 20.0                  | 0.80 | 1.0                  | 30000. | 0.525  | 9888000. | 0.500 |
| 37         | 20.0                  | 0.80 | 0.8                  | 32000. | 0.550  | 9526000. | 0.500 |
| 38         | 20.0                  | 0.80 | 0.6                  | 33000. | 0.525  | 8652000. | 0.500 |
| 39         | 25.0                  | 0.80 | 0.6                  | 30000. | 0.100  | 1752000. | 0.500 |
| 40         | 25.0                  | 0.75 | 2.0                  | 30000. | 0.350  | 5874000. | 0.300 |
| 41         | 25.0                  | 0.75 | 0.6                  | 30000. | 0.300  | 4994000. | 0.250 |
| 42         | 25.0                  | 0.75 | 1.4                  | 30000. | 0.350  | 6141000. | 0.300 |
| 43         | 20.0                  | 0.75 | 1.5                  | 30000. | 0.350  | 5874000. | 0.400 |
| 44         | 20.0                  | 0.76 | 1.7                  | 30000. | 0.400  | 6754000. | 0.450 |
| 45         | 20.0                  | 0.75 | 0.8                  | 31000. | 0.350  | 5874000. | 0.350 |
| 46         | 20.0                  | 0.75 | 1.0                  | 30000. | 0.400  | 6754000. | 0.350 |
| 47         | 20.0                  | 0.70 | 0.9                  | 25000. | 0.350  | 6675000. | 0.250 |
| 48         | 20.0                  | 0.71 | 1.9                  | 25000. | 0.350  | 6675000. | 0.250 |
| 49         | 20.0                  | 0.70 | 0.7                  | 25000. | 0.350  | 6675000. | 0.400 |

Flight 33 Middle station data

| Test point | Equivalent sweep, deg | Mach | Angle of attack, deg | hp, ft | (x/c)T | RnT      | AG    |
|------------|-----------------------|------|----------------------|--------|--------|----------|-------|
| 1          | 23.0                  | 0.60 | 1.3                  | 10000. | ****   | *****    | 0,250 |
| 2          | 23.0                  | 0.60 | 1.4                  | 10000. | ****   | *****    | 0,250 |
| 3          | 23.0                  | 0.61 | 0.7                  | 9900.  | ****   | *****    | 0,250 |
| 4          | 23.0                  | 0.60 | 0.6                  | 9800.  | ****   | *****    | 0,250 |
| 5          | 20.0                  | 0.60 | 1.2                  | 10000. | ****   | *****    | 0,250 |
| 6          | 20.0                  | 0.60 | 1.0                  | 10000. | 0,200  | 5215000. | 0,250 |
| 7          | 20.0                  | 0.60 | 0.4                  | 9700.  | ****   | *****    | 0,250 |
| 8          | 20.0                  | 0.60 | 0.6                  | 9900.  | 0,200  | 5364000. | 0,250 |
| 9          | 20.0                  | 0.60 | 1.4                  | 9900.  | ****   | *****    | 0,250 |
| 10         | 20.0                  | 0.60 | 1.9                  | 10000. | 0,200  | 5215000. | 0,250 |
| 11         | 25.0                  | 0.60 | 0.9                  | 10000. | ****   | *****    | 0,250 |
| 12         | 25.0                  | 0.61 | 0.6                  | 9500.  | ****   | *****    | 0,250 |
| 13         | 25.0                  | 0.61 | 1.8                  | 10000. | ****   | *****    | 0,250 |
| 14         | 25.0                  | 0.70 | -0.1                 | 10000. | ****   | *****    | 0,250 |
| 15         | 20.0                  | 0.70 | 0.1                  | 10000. | 0,200  | 6258000. | 0,300 |
| 16         | 20.0                  | 0.70 | 0.1                  | 10000. | ****   | *****    | 0,250 |
| 17         | 20.0                  | 0.70 | 0.5                  | 9900.  | 0,200  | 6258000. | 0,300 |
| 18         | 20.0                  | 0.70 | 1.5                  | 10000. | ****   | *****    | 0,250 |
| 19         | 20.0                  | 0.70 | 1.8                  | 10000. | ****   | *****    | 0,250 |
| 20         | 25.0                  | 0.70 | -0.1                 | 10000. | ****   | *****    | 0,250 |
| 21         | 25.0                  | 0.70 | 0.5                  | 10000. | ****   | *****    | 0,250 |
| 22         | 25.0                  | 0.70 | 1.5                  | 10000. | ****   | *****    | 0,250 |
| 23         | 30.0                  | 0.70 | 1.8                  | 20000. | ****   | *****    | 0,250 |
| 24         | 30.0                  | 0.70 | 0.7                  | 20000. | ****   | *****    | 0,250 |
| 25         | 25.0                  | 0.70 | 0.8                  | 20000. | 0,250  | 5610000. | 0,250 |
| 26         | 25.0                  | 0.70 | 0.6                  | 20000. | 0,200  | 4321000. | 0,250 |
| 27         | 25.0                  | 0.70 | 1.8                  | 20000. | 0,350  | 8010000. | 0,250 |
| 28         | 20.0                  | 0.69 | 0.5                  | 20000. | 0,350  | 7743000. | 0,250 |
| 29         | 20.0                  | 0.70 | 0.9                  | 20000. | 0,400  | 8903000. | 0,250 |
| 30         | 20.0                  | 0.70 | 0.6                  | 20000. | 0,350  | 7743000. | 0,250 |
| 31         | 20.0                  | 0.70 | 0.5                  | 20000. | 0,400  | 9210000. | 0,250 |
| 32         | 20.0                  | 0.70 | 1.8                  | 20000. | 0,350  | 7743000. | 0,250 |
| 33         | 20.0                  | 0.71 | 1.9                  | 20000. | 0,350  | 8010000. | 0,250 |
| 34         | 20.0                  | 0.75 | -0.1                 | 20000. | 0,200  | 4768000. | 0,350 |
| 35         | 20.0                  | 0.75 | 0.0                  | 20000. | 0,200  | 4768000. | 0,400 |
| 36         | 20.0                  | 0.75 | 0.6                  | 20000. | 0,150  | 3552000. | 0,500 |
| 37         | 20.0                  | 0.75 | 0.7                  | 20000. | 0,200  | 4619000. | 0,500 |
| 38         | 20.0                  | 0.75 | 1.6                  | 20000. | ****   | *****    | 0,450 |
| 39         | 20.0                  | 0.75 | 1.7                  | 20000. | ****   | *****    | 0,450 |
| 40         | 25.0                  | 0.75 | 0.3                  | 20000. | ****   | *****    | 0,300 |
| 41         | 25.0                  | 0.76 | 0.6                  | 20000. | ****   | *****    | 0,350 |
| 42         | 25.0                  | 0.75 | 1.7                  | 20000. | ****   | *****    | 0,350 |
| 43         | 30.0                  | 0.75 | 0.7                  | 20000. | ****   | *****    | 0,250 |
| 44         | 30.0                  | 0.75 | 1.7                  | 20000. | ****   | *****    | 0,300 |
| 45         | 20.0                  | 0.80 | -0.3                 | 20000. | ****   | *****    | 0,550 |
| 46         | 20.0                  | 0.80 | 0.1                  | 20000. | 0,200  | 5066000. | 0,550 |
| 47         | 20.0                  | 0.81 | 0.1                  | 20000. | ****   | *****    | 0,500 |
| 48         | 20.0                  | 0.80 | 0.4                  | 20000. | ****   | *****    | 0,500 |
| 49         | 20.0                  | 0.81 | 0.3                  | 20000. | ****   | *****    | 0,500 |

Flight 33 Middle station data

| Test point | Equivalent sweep, deg | Mach | Angle of attack, deg | hp, ft | (X/c)T | RnT   | AG    |
|------------|-----------------------|------|----------------------|--------|--------|-------|-------|
| 50         | 20.0                  | 0.80 | 0.4                  | 20000. | ****   | ***** | 0.500 |

Flight 34 Outboard station data

| Test point | Equivalent sweep, deg | Mach | Angle of attack, deg | hp, ft | (x/c)T | RnT      | AG    |
|------------|-----------------------|------|----------------------|--------|--------|----------|-------|
| 1          | 20.0                  | 0.60 | 0.9                  | 10000. | 0.300  | 6336000. | 0.350 |
| 2          | 20.0                  | 0.60 | 1.3                  | 10000. | 0.200  | 4176000. | 0.350 |
| 3          | 23.0                  | 0.60 | 0.8                  | 10000. | 0.100  | 2052000. | 0.350 |
| 4          | 23.0                  | 0.60 | 0.8                  | 10000. | 0.100  | 2052000. | 0.550 |
| 5          | 23.0                  | 0.60 | 1.4                  | 9900.  | 0.100  | 2052000. | 0.250 |
| 6          | 25.0                  | 0.60 | 0.9                  | 10000. | 0.050  | 1068000. | 0.350 |
| 7          | 25.0                  | 0.61 | 0.6                  | 10000. | 0.050  | 1008000. | 0.350 |
| 8          | 25.0                  | 0.60 | 1.7                  | 10000. | 0.050  | 1008000. | 0.060 |
| 9          | 25.0                  | 0.70 | -0.1                 | 10000. | 0.050  | 1176000. | 0.350 |
| 10         | 25.0                  | 0.70 | 0.5                  | 10000. | 0.050  | 1176000. | 0.350 |
| 11         | 25.0                  | 0.70 | 1.4                  | 10000. | 0.050  | 1176000. | 0.250 |
| 12         | 20.0                  | 0.70 | 0.0                  | 10000. | 0.300  | 7392000. | 0.350 |
| 13         | 20.0                  | 0.70 | 0.1                  | 10000. | 0.050  | 1176000. | 0.350 |
| 14         | 20.0                  | 0.71 | 0.3                  | 10000. | 0.300  | 7392000. | 0.350 |
| 15         | 20.0                  | 0.71 | 0.3                  | 9900.  | 0.150  | 3698000. | 0.350 |
| 16         | 20.0                  | 0.71 | 1.4                  | 10000. | 0.300  | 7568000. | 0.250 |
| 17         | 20.0                  | 0.70 | 0.5                  | 20000. | 0.300  | 5280000. | 0.300 |
| 18         | 20.0                  | 0.70 | 1.4                  | 20000. | 0.300  | 5280000. | 0.350 |
| 19         | 20.0                  | 0.70 | 0.7                  | 20000. | 0.300  | 5280000. | 0.250 |
| 20         | 20.0                  | 0.70 | 0.6                  | 20000. | 0.250  | 4380000. | 0.350 |
| 21         | 20.0                  | 0.70 | 1.4                  | 20000. | 0.250  | 4380000. | 0.250 |
| 22         | 25.0                  | 0.70 | 0.7                  | 20000. | 0.050  | 840000.  | 0.350 |
| 23         | 25.0                  | 0.70 | 0.6                  | 20000. | 0.050  | 840000.  | 0.350 |
| 24         | 25.0                  | 0.70 | 1.7                  | 20000. | 0.050  | 840000.  | 0.250 |
| 25         | 30.0                  | 0.70 | 1.1                  | 20000. | 0.050  | 840000.  | 0.250 |
| 26         | 30.0                  | 0.70 | 0.7                  | 20000. | 0.050  | 840000.  | 0.350 |
| 27         | 30.0                  | 0.70 | 1.8                  | 20000. | 0.050  | 840000.  | 0.250 |
| 28         | 35.0                  | 0.71 | 1.3                  | 20000. | 0.050  | 840000.  | 0.250 |
| 29         | 35.0                  | 0.70 | 0.5                  | 20000. | 0.050  | 840000.  | 0.350 |
| 30         | 35.0                  | 0.75 | 0.7                  | 20000. | 0.050  | 896000.  | 0.250 |
| 31         | 35.0                  | 0.75 | 0.5                  | 20000. | 0.050  | 896000.  | 0.250 |
| 32         | 35.0                  | 0.76 | 1.7                  | 20000. | 0.050  | 896000.  | 0.250 |
| 33         | 30.0                  | 0.76 | 0.7                  | 20000. | 0.050  | 924000.  | 0.250 |
| 34         | 30.0                  | 0.75 | 1.4                  | 20000. | 0.050  | 896000.  | 0.250 |
| 35         | 25.0                  | 0.75 | 0.3                  | 20000. | 0.100  | 1824000. | 0.350 |
| 36         | 25.0                  | 0.75 | 0.8                  | 20000. | 0.050  | 896000.  | 0.300 |
| 37         | 25.0                  | 0.75 | 1.5                  | 20000. | 0.050  | 896000.  | 0.250 |
| 38         | 20.0                  | 0.75 | 0.2                  | 20000. | 0.050  | 896000.  | 0.350 |
| 39         | 20.0                  | 0.75 | 0.3                  | 20000. | 0.200  | 3712000. | 0.350 |
| 40         | 20.0                  | 0.76 | 0.8                  | 20000. | 0.100  | 1824000. | 0.350 |
| 41         | 20.0                  | 0.75 | 0.6                  | 20000. | 0.050  | 896000.  | 0.350 |
| 42         | 20.0                  | 0.75 | 1.4                  | 20000. | 0.050  | 896000.  | 0.400 |
| 43         | 20.0                  | 0.80 | -0.3                 | 20000. | 0.050  | 980000.  | 0.550 |
| 44         | 20.0                  | 0.80 | -0.2                 | 20000. | 0.150  | 3010000. | 0.550 |
| 45         | 20.0                  | 0.81 | 0.8                  | 20000. | 0.050  | 980000.  | 0.550 |
| 46         | 20.0                  | 0.83 | 0.5                  | 20000. | 0.050  | 980000.  | 0.550 |
| 47         | 25.0                  | 0.81 | -0.3                 | 20000. | 0.050  | 980000.  | 0.500 |
| 48         | 25.0                  | 0.81 | 0.2                  | 20000. | 0.050  | 980000.  | 0.500 |
| 49         | 25.0                  | 0.80 | 1.3                  | 20000. | 0.050  | 980000.  | 0.500 |

Flight 34 Outboard station data

| Test point | Equivalent sweep, deg | Mach | Angle of attack, deg | hp, ft | (x/c)T | RnT      | AG    |
|------------|-----------------------|------|----------------------|--------|--------|----------|-------|
| 50         | 30.0                  | 0.81 | 0.0                  | 20000. | 0.050  | 980000.  | 0.400 |
| 51         | 30.0                  | 0.80 | 0.6                  | 20000. | 0.050  | 980000.  | 0.400 |
| 52         | 30.0                  | 0.81 | 1.3                  | 20000. | 0.050  | 980000.  | 0.450 |
| 53         | 30.0                  | 0.83 | -0.1                 | 20000. | 0.050  | 1008000. | 0.500 |
| 54         | 30.0                  | 0.83 | 0.6                  | 20000. | 0.050  | 1008000. | 0.500 |
| 55         | 30.0                  | 0.83 | 1.5                  | 20000. | 0.050  | 1008000. | 0.500 |

Flight 35 Outboard station data

| Test point | Equivalent sweep, deg | Mach | Angle of attack, deg | hp, ft | (x/c)T | RnT      | AG    |
|------------|-----------------------|------|----------------------|--------|--------|----------|-------|
| 1          | 30.0                  | 0.82 | 0.9                  | 25000. | 0.050  | 840000.  | 0.500 |
| 2          | 30.0                  | 0.83 | 1.5                  | 25000. | 0.050  | 840000.  | 0.500 |
| 3          | 35.0                  | 0.81 | 0.9                  | 25000. | 0.050  | 812000.  | 0.250 |
| 4          | 35.0                  | 0.80 | 0.6                  | 26000. | 0.050  | 812000.  | 0.350 |
| 5          | 30.0                  | 0.80 | 0.9                  | 25000. | 0.050  | 812000.  | 0.450 |
| 6          | 30.0                  | 0.80 | 0.6                  | 26000. | 0.050  | 812000.  | 0.400 |
| 7          | 30.0                  | 0.80 | 1.5                  | 25000. | 0.050  | 812000.  | 0.450 |
| 8          | 25.0                  | 0.80 | 0.5                  | 25000. | 0.100  | 1653000. | 0.500 |
| 9          | 25.0                  | 0.81 | 1.7                  | 25000. | 0.100  | 1653000. | 0.500 |
| 10         | 20.0                  | 0.80 | 0.1                  | 25000. | 0.350  | 6032000. | 0.550 |
| 11         | 20.0                  | 0.80 | 0.6                  | 25000. | 0.500  | 8816000. | 0.550 |
| 12         | 20.0                  | 0.80 | 1.5                  | 25000. | 0.350  | 6032000. | 0.500 |
| 13         | 20.0                  | 0.75 | 0.8                  | 25000. | 0.300  | 4752000. | 0.350 |
| 14         | 20.0                  | 0.75 | 1.0                  | 25000. | 0.350  | 5616000. | 0.400 |
| 15         | 20.0                  | 0.75 | 0.6                  | 25000. | 0.350  | 5616000. | 0.350 |
| 16         | 25.0                  | 0.75 | 1.4                  | 25000. | 0.150  | 2322000. | 0.250 |
| 17         | 25.0                  | 0.75 | 0.4                  | 25000. | 0.200  | 3132000. | 0.350 |
| 18         | 30.0                  | 0.75 | 1.4                  | 25000. | 0.050  | 756000.  | 0.250 |
| 19         | 30.0                  | 0.75 | 0.9                  | 25000. | 0.050  | 756000.  | 0.250 |
| 20         | 35.0                  | 0.75 | 1.8                  | 25000. | 0.050  | 756000.  | 0.250 |
| 21         | 35.0                  | 0.75 | 0.5                  | 25000. | 0.050  | 756000.  | 0.350 |
| 22         | 35.0                  | 0.76 | 1.5                  | 25000. | 0.050  | 756000.  | 0.250 |
| 23         | 35.0                  | 0.70 | 2.5                  | 25000. | 0.050  | 700000.  | 0.060 |
| 24         | 35.0                  | 0.70 | 0.9                  | 25000. | 0.050  | 700000.  | 0.350 |
| 25         | 35.0                  | 0.70 | 1.9                  | 25000. | 0.050  | 700000.  | 0.060 |
| 26         | 31.0                  | 0.70 | 2.1                  | 25000. | 0.050  | 700000.  | 0.060 |
| 27         | 31.0                  | 0.70 | 1.0                  | 26000. | 0.050  | 672000.  | 0.350 |
| 28         | 27.0                  | 0.70 | 2.2                  | 25000. | 0.250  | 3650000. | 0.060 |
| 29         | 27.0                  | 0.70 | 0.8                  | 25000. | 0.200  | 2900000. | 0.350 |
| 30         | 27.0                  | 0.70 | 1.7                  | 25000. | 0.300  | 4400000. | 0.250 |
| 31         | 21.0                  | 0.70 | 1.6                  | 25000. | 0.350  | 5200000. | 0.250 |
| 32         | 21.0                  | 0.70 | 0.7                  | 26000. | 0.350  | 4992000. | 0.350 |
| 33         | 21.0                  | 0.70 | 0.3                  | 26000. | 0.400  | 5736001. | 0.350 |
| 34         | 21.0                  | 0.70 | 1.5                  | 27000. | 0.350  | 4992000. | 0.250 |
| 35         | 20.0                  | 0.75 | 1.8                  | 30000. | 0.400  | 5258000. | 0.400 |
| 36         | 20.0                  | 0.75 | 1.5                  | 30000. | 0.450  | 5962000. | 0.400 |
| 37         | 20.0                  | 0.75 | 0.6                  | 30000. | 0.250  | 3212000. | 0.350 |
| 38         | 20.0                  | 0.75 | 0.5                  | 31000. | 0.250  | 3212000. | 0.350 |
| 39         | 25.0                  | 0.75 | 1.9                  | 30000. | 0.150  | 1892000. | 0.250 |
| 40         | 25.0                  | 0.75 | 0.6                  | 30000. | 0.200  | 2552000. | 0.300 |
| 41         | 30.0                  | 0.75 | 1.9                  | 30000. | 0.100  | 1254000. | 0.250 |
| 42         | 30.0                  | 0.75 | 0.8                  | 30000. | 0.100  | 1254000. | 0.350 |
| 43         | 30.0                  | 0.75 | 1.6                  | 30000. | 0.100  | 1311000. | 0.250 |
| 44         | 30.0                  | 0.80 | 1.5                  | 30000. | 0.050  | 672000.  | 0.450 |
| 45         | 30.0                  | 0.81 | 0.5                  | 30000. | 0.050  | 672000.  | 0.400 |
| 46         | 25.0                  | 0.80 | 1.1                  | 30000. | 0.300  | 4224000. | 0.500 |
| 47         | 25.0                  | 0.80 | 0.4                  | 30000. | 0.300  | 4224000. | 0.500 |
| 48         | 20.0                  | 0.80 | 0.5                  | 30000. | 0.450  | 6504000. | 0.500 |
| 49         | 20.0                  | 0.80 | 1.1                  | 30000. | 0.150  | 2064000. | 0.500 |

Flight 35 Outboard station data

| Test point | Equivalent sweep, deg | Mach | Angle of attack, deg | hp, ft | (x/c)T | RnT      | AG    |
|------------|-----------------------|------|----------------------|--------|--------|----------|-------|
| 50         | 20.0                  | 0.80 | 0.6                  | 30000. | 0.450  | 6504000. | 0.500 |
| 51         | 20.0                  | 0.80 | 1.6                  | 30000. | 0.450  | 6504000. | 0.500 |
| 52         | 20.0                  | 0.80 | 1.7                  | 30000. | 0.500  | 7600000. | 0.500 |
| 53         | 20.0                  | 0.81 | 1.6                  | 35000. | 0.525  | 6400000. | 0.500 |
| 54         | 20.0                  | 0.80 | 2.3                  | 35000. | 0.525  | 6400000. | 0.500 |
| 55         | 20.0                  | 0.80 | 0.6                  | 36000. | 0.525  | 6080000. | 0.500 |
| 56         | 20.0                  | 0.80 | 1.5                  | 36000. | 0.525  | 6080000. | 0.500 |
| 57         | 25.0                  | 0.80 | 1.4                  | 35000. | 0.500  | 6080000. | 0.500 |
| 58         | 25.0                  | 0.80 | 0.8                  | 36000. | 0.250  | 2774000. | 0.500 |
| 59         | 25.0                  | 0.80 | 1.4                  | 36000. | 0.500  | 5776000. | 0.500 |
| 60         | 30.0                  | 0.80 | 2.3                  | 35000. | 0.150  | 1720000. | 0.450 |
| 61         | 30.0                  | 0.81 | 1.1                  | 35000. | 0.120  | 1380000. | 0.400 |
| 62         | 31.0                  | 0.80 | 2.0                  | 35000. | 0.150  | 1720000. | 0.450 |
| 63         | 31.0                  | 0.80 | 1.0                  | 35000. | 0.350  | 3952000. | 0.400 |
| 64         | 30.0                  | 0.70 | 3.8                  | 35000. | 0.150  | 1462000. | 0.060 |
| 65         | 30.0                  | 0.70 | 0.7                  | 35000. | 0.350  | 3536000. | 0.350 |
| 66         | 30.0                  | 0.70 | 1.3                  | 35000. | 0.350  | 3536000. | 0.350 |
| 67         | 25.0                  | 0.70 | 3.4                  | 35000. | 0.150  | 1462000. | 0.060 |
| 68         | 25.0                  | 0.70 | 0.3                  | 35000. | 0.450  | 4607000. | 0.350 |
| 69         | 25.0                  | 0.70 | 1.5                  | 35000. | 0.350  | 3536000. | 0.250 |